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REPEATER JOURNAL

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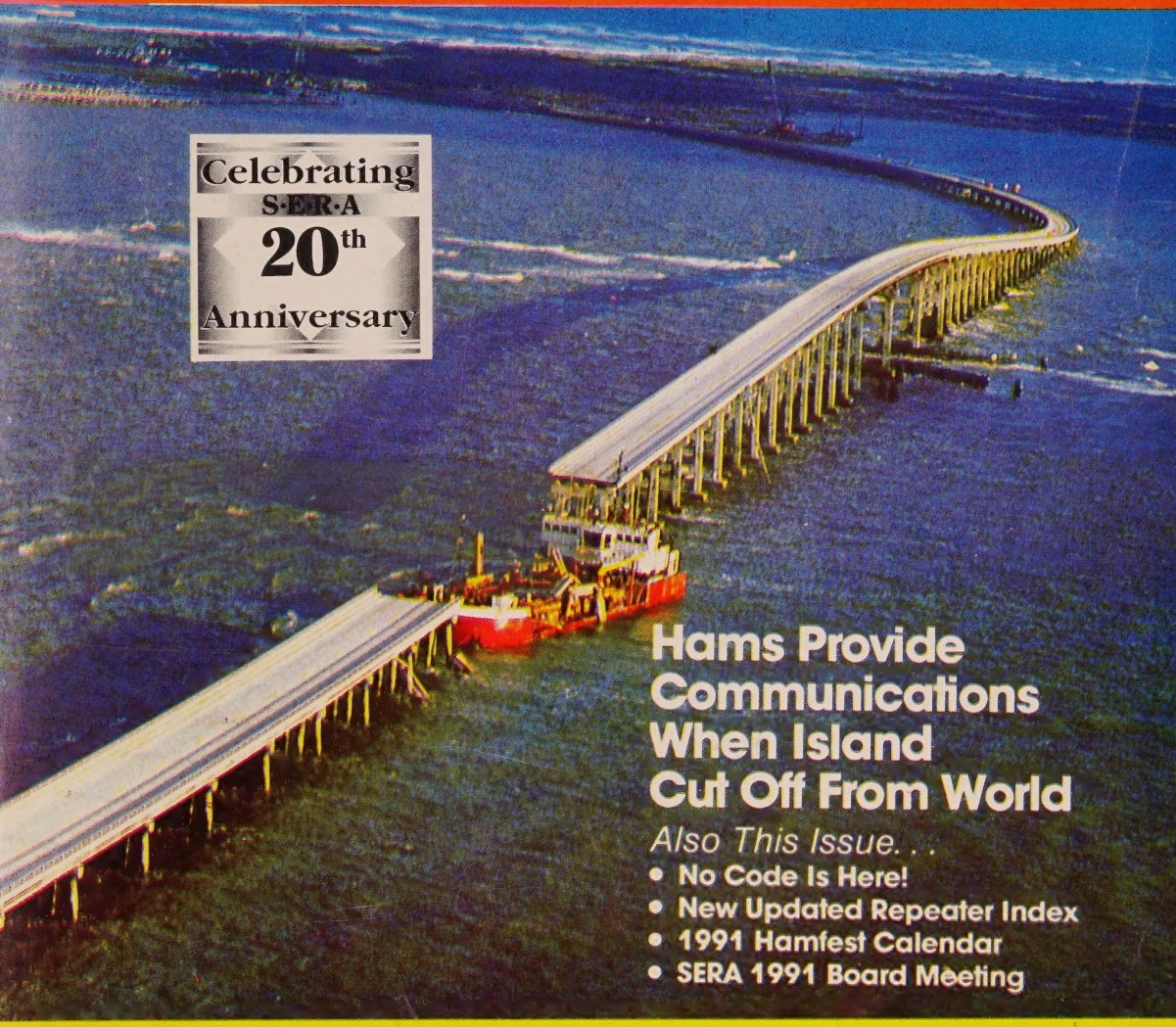
SouthEastern Repeater Association, Inc.
February, 1991 2.50



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Also This Issue. . .

- No Code Is Here!
- New Updated Repeater Index
- 1991 Hamfest Calendar
- SERA 1991 Board Meeting

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Feb., March, April, 1991

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Editorial Comment

Let's Just Stay Calm

Let's Just Stay Calm About This! When the announcement came out December 13th about "no-code" there were many reactions. Some were of hysteria, some were glad, others threatened to hang up their ticket for ever.

I think perhaps the ones most vocal were those against no-code in the first place. The ones in favor of a codeless license structure in the Amateur Radio service generally kept their mouth shut, on the air anyway.

FACT: The FCC has notified us that there will be a codeless class license operator (Technician) with all privileges above 30 mhz. These new operators will be unidentifiable by callsign. It will be up to us to see that they become unidentifiable by their actions on the air. Regardless of what we think about no-code, no matter how bad it rubs us, it is here, and we may as well make the best of it. There is nothing you, I, and especially the ARRL can do about it.

Let's Review a Bit

In the seventies, we swore Amateur radio was going down the tubes.There was a great exodus to get more Amateur operators into our service from the Citizen Band ranks. Clubs went to CB Jamborees, showed the movies "The World of Amateur Radio," passed out pamphlets and answered questions. Finally it worked, throngs of "CBers" began studying and joining classes in Amateur Radio, and most passed their tests, thus becoming Amateurs.

The predictions of doom for Amateur Radio never happened. These new CB converted Hams became the mainstays of our clubs. They were the active members passing traffic, working on field days, helping at Hamfests. And they were quickly accepted by the "old timers".

As they years passed, the flow of new Amateurs dwindled. Our growth patterns started shrinking again.

A few years ago, with full support of ARRL the FCC gave the Novices a "big incentive", 10-meters and 220 Mhz. repeater bands. It didn't work!

Then as we entered the 90's we found ourselves losing a portion of the 220 band, as the FCC stated "under utilization of the band." Why didn't this new infusion of privileges given to Novices cause our ranks to start a healthy growth pattern. Mainly because we didn't give the Novices enough, and when an outsider looked in, he didn't see enough incentive to go through what he had to do to get into the mainstream of Amateur Radio. Sure 10-meters was open most of the period, and 220 mhz has hundreds of repeaters in most areas, but most of the Novices wound up talking to themselves, or other new Novices. Not enough of the "oldtimers" came up on 220 to talk to them.

(Continued on Page 45)

REPEATER JOURNAL

Feb., March, April, 1991
Volume 11, No. 1
ORGANIZED IN 1971
"In Our 20th Year"

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For 20 Years, SERA has provided information and education through the pages of the Repeater Journal. Help your new ham friend stay informed. Show him your Repeater Journal and tear out the Association Membership Application included in this issue. One Year Membership only $6.00.

About Associate Membership

Repeater users and Amateurs are invited to join SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication — Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. SERA does not issue receipts for Membership applications Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 215, Tobaccoville, N.C. 27050-0215. Associate Members may hold appointive positions within SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calendar year.

About the Repeater Journal. . .

The SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of Southeastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newsletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C 27235.

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The SouthEastern Repeater Association, Inc. is one of the largest, well known and most respected non-profit Repeater Coordination Council in the United States. Sera territory covers over 1,400 repeaters in member States of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, Kentucky, Georgia and Mississippi. Celebrating our 20th Anniversary, our goal continues--to serve the repater owners and users of our area, and promote a pleasant operating condition in the VHF/UHF specrum of Amateur Radio through Coordination, Communication and Education.

No Code Technician Licence Is Here

— by Wayne C. Williams, K4MOB

The FCC in a startling, but not unexpected move in December announced that the amateur Radio Service will have a place, probably by the time you read this, a codeless Amateur license class with ful privileges about 30 Mhz.

The December 13th announcement at FCCs regular public meeting spread throughout the Amateur community like wild fire, as Amateurs learned that it was finally true — no-code licenses in Amateur radio.

The new no-code license will be a Technician class licensee. Present Technicians who have the 5 w.p.m. code credit will retain their 10-Meter privileges. The Novice Class will also be retained for those who wish to enter Amateur radio with 5 w.p.m. code and full Novice privileges. The new Technician licensee will have privileges about 30 Mhz. which of course includes 6M, 2M, 220 Mhz, 450 Mhz. and above.

The new Technician licensee will have had to pass element 2, the written exam for Novice. He will then through a VEC, pass Element 3A, the written test for Technician. To advance farther and get privileges below 30 Mhz., the new Technician must first pass 5 w.p.m. code test for the Technician "coded" licensee to gain 10-meters.

If he wishes to advance further, the regular theory and code tests are required for General, Advanced and Extra, administered through VEC/VE teams.

ARRL Apparently Not Happy With FCCs No-Code

According to a news release, from ARRL, at the same time the No Code release came down, President Larry Price applauded the FCC for retaining the present Novice license as a means of entry into Amateur Radio. Price, however, didn't indicate quite the enthusiasm for the FCC version of no-code which was announced.

In the release, Price sounded a note of caution with regard to the privileges the Commission plans to grant to codeless licenses. Price said, "The formula developed by the ARRL Board, called for privileges about 220 mhz, based on extensive membership input." He added, "It was carefully balanced to offer attractive privileges while protecting existing patterns of amateur activity."

It should be noted that the ARRL straw committee recommended 2-meters and above, and the ARRL Board was split on the vote, 9 to 6.

"Before we can decide whether to request that the Commission partially reconsider its action, we'll have to see the Report and Order," said Price.

There is a 30 day opportunity following release in which petitions for reconsideration can be filed. Price said the full ARRL Board would be meeting on January 18-19 and would review the action. (Editor)

The Commission was expected to have the new Amateur entry license in place on or around February 1.

The new codeless Technicians will be assigned callsigns from the Group "D" group of callsigns (2×3), the same as Novices, old Technicians and now Generals receive.

Codeless Technicians and Technicians with code credit will not be distinguishable on the air, but records of code credit will be sent to the FCC by VEC/VE teams when or if they take code tests. Present Technicians will of course be "grandfathered" and on record as having passed the code test.

Since Novice exams are still to be administered in the same way, with two General Class or higher Amateurs present, and the Technician exam required through the VEC/VE system, it is not known whether a new entrant into the Amateur ranks can take both exams at one sitting.

We talked to one VEC representative and he indicated that their VE teams would probably be prepared to offer additional Amateur exam support on site for Novice exams, then VEC/VE sponsored Technician exams.

At the present time, no question pools will change and all existing current Novice and Technician study guides being published will still be valid for current exams.

PRBs Bill Cross Gives Amateurs Good Marks

During the FCC Public meeting, the Private Radio Bureau's William Cross said during an excellent overview of Amateur Radio to the full Commission that "We will look to the Amateur Service in the future, to expand the pool of experimenters, engineers, and technicians."

Cross also said, "A concern within the Amateur community, that morse code requirement may have discouraged some otherwise qualified people who could contribute to the service from entering it."

Several specific contributions offered by Amateur radio in the past included the adoption of SSB by the U.S. Air Force in the '50s after hams proved the capability of the mode. The hams' early use of low-earth satellites as well as their on-going Space Shuttle SAREX program was also mentioned.

Cross said, "Society is well served by Amateurs available worldwide." "By persons ready, willing, and — most important — able to communicate in times of emergency."

Amateur Radio Not Growing Says FCCs Ralph Haller

In December when the FCC announced no-code, Private Radio Bureau Chief, Ralph Haller held a new conference, shortly after the FCC Public meeting.

Haller said, "The Amateur Service is not growing as it should, relative to what it has to offer." He added that eh Amateur Service is where our nation's technical expertise comes from.

"The changes in the Licensing structure should attract people who are interested in computers and digital communications," he said, and added that this should help the United States to become more competitive.

FCC Amends Rules On Disabled CW Testing

In December, the FCC amended its rules to make the Amateur service more accessible to Amateur operator licensees who, because of severe handicaps, are incapable of passing the higher speed Morse code telegraph examinations.

The Commission said the judgement of a physician will be relied on the establish that a person is severely handicapped and cannot pass a telegraphy examination.

When questioned about the integrity of the program, following the announcement, Ralph Haller, said the FCC was relying on the certification of people who have themselves been certified by a board. He said the Commission will deal harshly with those who abuse the process. The FCC will also require that an applicant for exemption, sign a release permitting disclosure to the FCC of medical information pertaining to the disability.

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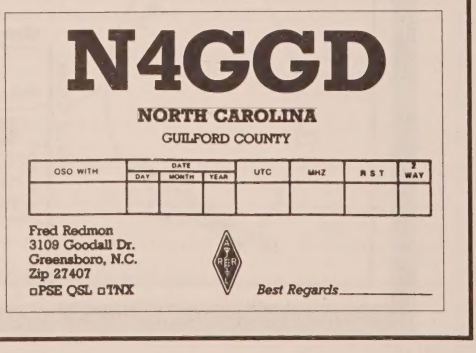

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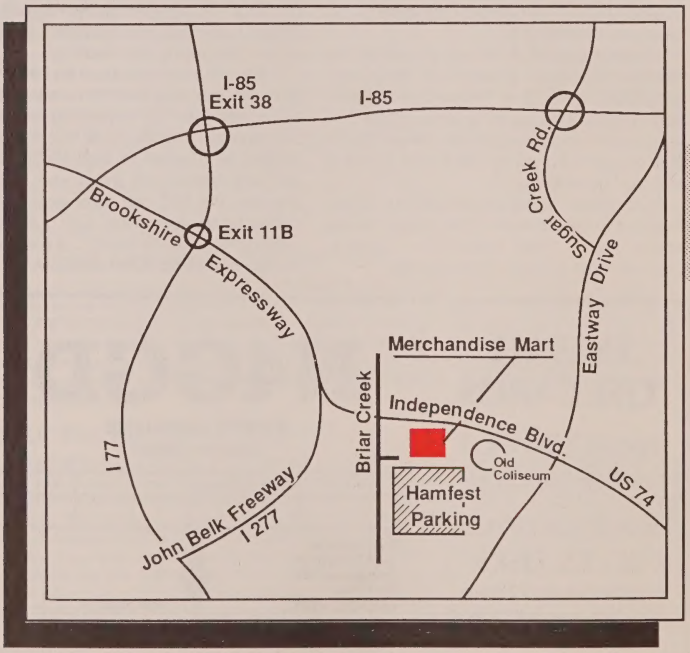

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SERA Board Meets: Installs New Directors

— by Wayne C. Williams, K4MOB
Editor, The Repeater Journal

The SouthEastern Repeater Association, Inc. Board of Directors held their annual meeting on January 6th at the Howard Johnson Motor Lodge in Gastonia, N.C.

Topping the agenda was installation of new Directors and Vice Directors and appointment of Assistant Directors. The Board also made minor changes to the Bylaws, put into place the new 220 Mhz bandplan, and proposed new changes to the Bylaws to enable Associate Membership of SERA voting rights.

The 6-Meter bandplan will be studied by a special Committee to be headed by Dave Shiplett, WL7ACY for later recommendations to the board, incorporating the additional megahertz added to the FM portion.

The Saturday night and Sunday morning meeting ended with President Carter Cogle, K4ARO being presented the "President's Award" for 1990. Cogle was cited for his outstanding work as President and hs handling of several troublesome situations, taking the job as coordinator for South Carolina until a Director could be found, and his ongoing dedication to SERA as a whole. The handsome plaque, encased in glass was presented to him on behalf of the Board of Directors.

New 220 Mhz Bandplan Implemented

The SERA Board voted to implement the new 220 mhz. bandplan which was adopted in 1988. The new plan was formulated if and when the FCC took the lower 2 megahertz away from the Amateur 220 band. Since all appeals have been exhausted, the Board Directed the coordinators to start implementing the new plan in three phases.

(1) Begin notifying repeater owners with repeater pairs below 222.50-224.10 of a impending move.

Begin moving control and link frequencies for repeaters and remote base systems from the 221 mhz portion to the new frequency location.

(3) Final implementation of band move when FCC announces the date Amateurs must vacate the lower 2 mhz. of the band.

Repeater owners are reminded that there should be plenty of repeater pairs available in about every location, enabling the ones which will need to make the move, to get a good clear channel. Directors will be notifying the affected repeater owners and will work with them individually in finding a good channel to move to. It was noted that, starting early, will give repeater owners plenty of time to make their decision of where to move, and plenty of time to actually effect the move.

Only about 33 repeaters in the 8 States will be affected by the new bandplan.

Repeater owners with control frequencies on 220 mhz. should contact their Director and coordinator for new control frequency assignments for orderly moves that will prevent interference problems. It should be noted, there is no urgency to this phase, but repeater owners should be aware and prepared to contact for the future move.

The new 220 bandplan was designed to enable us to vacate the bottom 2 mhz. of the band with minimum disruption to existing systems. Obviously some repeaters are effected, but fortunately there is ample room for them to move upward in the band. SERA will make every attempt to assist in making the new bandplan move as orderly and smoothly as possible.

Every repeater owner which will be effected is asked to please be patient and give as much co-operation as possible. We must move, that decision is final. If everyone effected cooperates in the Directors carefully worked out plan to move, displacement will be orderly and not cause future problems on the 220 band.

Your assisted is appreciated. We plan to show the FCC and the rest of the country that SERA territory works together and gets the job done, right the first time.

Directors, Vice Directors Installed

The people who will lead SERA Districts in 1991-1992 were officially installed to office at the Jan. 6 SERA Board Meeting. Directors and Vice-Directors in order, for each District follow: Virginia — Wally Burkette, WA4KXV and Don Williams, WA4K. North Carolina — Danny Hampton, KM4OX and Richard Woodbury, N4LMR. West Virginia — Karl Morris, WB8GDY and Dick Fowler, N8FMD. Kentucky — Terry Estes, WB4ASZ. Vice-Director remains vacant. South Carolina — Bill Jones, N4NMH and Gary Foster, WD8OXE. Tennessee — Johnny Wofford, WA4ETE and Tim Berry WB4GBI. Georgia — Dave ams, WA4K. Shiplett, WL7ACY and Jack Berry, WA4pme. Mississippi — Steve Grantham, N5DWU and Jim Akers, W5VZF.

The SERA Board also approved the following Assistant Director appointments: Ralph Langley, KA8SVR, West Virginia; Jim Abercrombie, N4JA, Larry Smith, N4FD and Stu Simms, N4MXC of Georgia; and Brad Adams, N4PYI and Roy Archibald, W4LB of Tennessee. Archibald is also appointed special Western Tennessee Frequency Coordinator to assist the Director. Vice-Director Tim Berry will coordinate East Tennessee.

The listing of State Directors, Vice Directors and their Assistants are listed with their address and phone number on Page 1 of the Journal.

New SERA District Meetings Proposed

The SERA Board is looking at changing the regular meeting schedules. For years, SERA has held two meetings yearly, designed mainly for the Board and Appointees. The new proposal suggests a Board and Appointees meeting just once a year in August. The first meeting at the beginning of the year will be changed to District meetings.

This new type meeting will be conducted in each individual State by the Director and Vice-Director and his assistants. Every repeater owner in the State will be invited, as well as interested repeater users. This new form of meeting will be designed to allow repeater owners to work more closely with their SERA officials in each State. One on one and group discussions of problems, techniques and accomplishments within the State will also be covered.

The new meetings will be held at the discretion of the Director sometimes between January and June. Some may be held at hamfests in that State to enable more repeater owners to come.

A Bylaw committee was chosen to draft the Bylaws for the new meeting format and present to the Board 30 days before the August meeting, so it can be voted upon at the meeting.

The new type meetings should begin in 1992.

Repeater Sites Vulnerable To Theft And Vandalism

The SERA Board of Directors has received reports of several instances where Amateur repeater systems have been vandalized, or buildings broken into and equipment stolen.

The Board recommends that repeater owners not make available to the general public, nor the general Amateur public, the exact location of the repeater equipment.

It further suggested that owners of repeaters should make every attempt to burglarproof their buildings, cabinets and systems as much as possible. If the site is within hearing distance, burglar alarms would be in order.

Above all, one repeater owner suggested. Insurance!

Voting Rights For Associate Membership??

The SERA Board is looking into changing the Bylaws to allow Associate Members of the organization to have voting rights. Presently only Full Members (repeater owners and sponsors) may vote in elections. Full Members may also hold elective office.

Presently, Associate Members (repeater users) may hold appointive offices, but may not vote.

The Board will be looking for ways to change this, to enable ALL members of SERA to have a voice in election of Officers and Directors. No timetable was given as to when the changes should be made, but it was suggested the committee re-writing the Bylaws to change meetings, consider the new voting rights in their change sessions.

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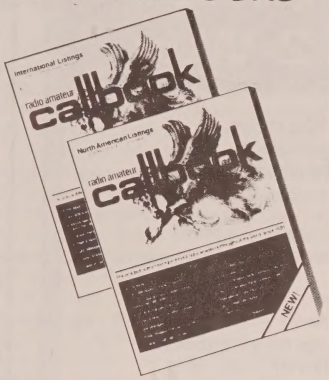
1991 CALLBOOKS



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Initial Full Membership Report

North Carolina . . . Ahem!! Does It Again And Again!

It was another great start in 1991 for North Carolina repeater owners never to be outdone by any other SERA State. The Tarheel state came in with Full Member repeater totals equal to the *final* total of 1990 of 157 for an outstanding start of 66% of all repeaters.

Placing second in total repeater members was Georgia with 129, followed by Tennessee with 122 and Virginia with 113. In percentages, the 2nd place State was Virginia with 61.4%, followed by West Virginia with 55.4%. The rest of the states were starting good, but just below 50%.

David Ward, KA4LVO, Membership chairman said this was the biggest year he has ever seen in Full Member response. He said he mailed out over 1,400 Data Sheets to all known repeaters in SERA Territory, with an invitation to join as Full Members. As of January 14th, he said he had processed 705 Repeater memberships.

"We are only 19 members behind all of 1990, and we've just got started in 1991," David said.

All repeater Full Memberships are renewable each January 1. Generally a large number wait until after the February Journal is published, and they note a "D" for Delinquent beside their repeater, before they remember to send in membership forms.

Last year, which was a record year saw only 543 repeater memberships during the initial renewal time before the February Journal. Ultimately, almost 200 more came in during the year.

Even though, with the new repeater count across the 8 states in January, making the totals jump fro 1339 in 1990 top 1415 repeaters in 1991, SERA still managed to obtain 49.8% of its repeaters as Full Members, compared with 40.6% at this time last year.

Ward credited the data sheets mailed to all repeater owners giving them an opportunity to update their repeaters as being responsible for the heavy turnout.

"I believe repeater owners are beginning to see just how massive and complete our SERA database has become, and they are more inclined to participate in our organization.

The chart below shows by State, statistics of Full Membership as we stand at the moment. Previous years Full Membership totals are also available.

Ward said the Membership Committee was really busy in late December and early January, processing the hundreds of datasheets which were returned.

"Some don't join SERA," David said, "But we certainly appreciate them taking time to help us complete the database by sending in updated sheets for us." "Of course, we are happier when we get the Full Membership too."

Gary & Donna Foster To Write SC News

The Repeater Journal is pleased to report that Gary, WD80XE and his wife Donna, KB4TUY of Inman, SC have agreed to write a column regularly for the Journal about South Carolina happenings.

Their first installment is included in this issue. They will be keeping us informed as to what is happening in that State. The Fosters invite SC hams to send news happenings concerning repeaters, clubs, activities, hamfest to them for inclusion in future issues of the Journal. Contact Gary or Donna Foster at 670 Foster Rd., Inman, SC 29349. Call (803) 592-9225.

SERA FULL MEMBERSHIP REPEATERS FROM 1983 TO DATE. Correct 1-14-91

STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	FINAL 1987	FINAL 1988	FINAL 1989	FINAL 1990	CURR 1991	1991 MBR %	STATE RPTRS
N.C.	100	83	149	147	123	145	181	157	157	66.0%	238
S.C.	24	35	56	43	44	46	59	50	43	44.3%	97
VA.*	58	60	92	88	98	99	151	122	113	61.4%	184
W.VA	28	21	41	40	51	39	51	54	56	55.4%	101
TENN.	47	58	85	63	80	80	111	128	122	41.4%	295
GA.**	9	18	109	125	110	100	104	124	129	46.7%	276
KY***	1	4	18	21	19	15	48	53	59	46.1%	128
MISS***	--	--	--	--	--	3	12	36	26	27.1%	96
TOTALS	268	280	554	598	532	527	717	724	705	49.8%	1415

* Total Virginia list does not include 62 repeaters which are included in T-MARC territory, North of Highway 33 and Latitude 38-deg.North. Also 4 repeaters in the West Virginia Panhandle area, which are T-MARC.
** GA assumed SERA District Status in mid-1985.
***EKY assumed SERA District Status in 1985, Western Ky in late 1989. District renamed Kentucky (KY) District.
***MS assumed SERA District Status in late 1989.

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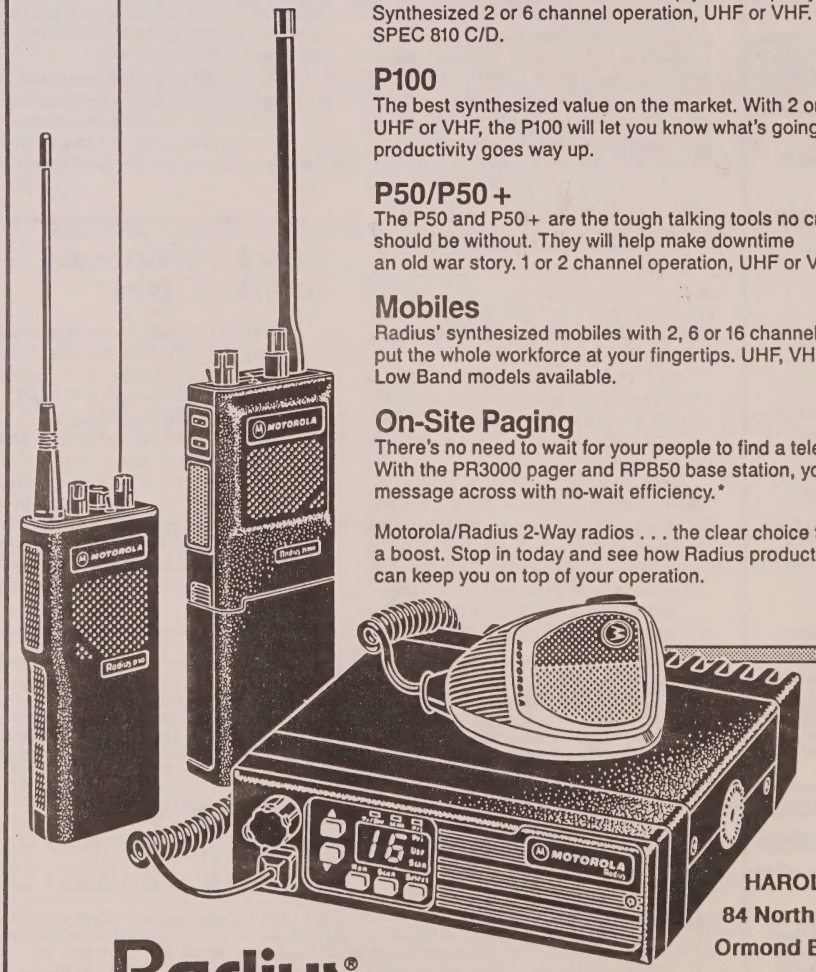

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440 Repeaters Show Greatest Growth

SERA Repeater Count

What has become a tradition in the SERA Membership and Publications Committee continues to turn out interesting statistics as SERAs 8-States of repeaters are again counted at the beginning of the new year.

As last year, the 440 Mhz. band was the big growth band. SERA territory now has 323 of these machines, a gain of 53 repeaters. The next big browth band in repeaters was the 220 Mhz. band with 14 additional repeaters over last year. 1991 shows a total of 158 across the 8-states.

It should be noted, that totals of repeaters are counted which are on the air. More could have come on during the past year, but some went off the air. The count shows the net gain or loss for the year.

Two meters continues to slow down, as the band fills with machines. There are ony 9 more on the air now that there were last January.

The 10-Meter and 6-Meter bands continue their decline. This year saw a loss of four 10-meter and one 6-meter machine in SERA. They both had declined in numbers in 1989.

The SERA District with the greatest growth of repeaters was Georgia with 16, followed by Virginia with 15. Our smallest state of repeaters, Mississippi climbed to 96, as South Carolina inched to 97 and West Virginia passed the century mark with 101.

The state with the most 2-meter repeaters is Tennessee with 167, followed by Georgia with 153 and North Carolina with 151. Tennessee also leads all others on 440 repeaters with 76, followed by Georgia 72 and Virginia with 51. Leading the way in 220 Mhz. is Georgia with 39, followed by North Carolina 37, and Tennessee 32 repeaters.

Overall growth in the 8-States since last January was 73 machines for a total of 1415 on all VHF/UHF bands.

On this page is a chart showing statistics of the last 8 years in SERA territory of repeaters by-state and by-band.

SERA Territory Repeater Growth by State (District) since 1984. Updates are Calculated in January of Each Calendar Year.

Corr. as of 1-14-91.

Dist	10-Meters 84	85	86	87	88	89	90	91	6-Meters 84	85	86	87	88	89	90	91	2-Meters 84	85	86	87	88	89	90	91	220-Mhz. 84	85	86	87	88	89	90	91	440-Mhz. 84	85	86	87	88	89	90	91	Totals 7 States 84	85	86	87	88	89	90	91	
NC	0	2	3	2	2	3	2		9	9	9	10	6	7	4	5	133	143	144	140	141	146	146	151	24	25	28	27	30	34	36	37	14	25	36	32	33	31	39	43	180	204	220	211	214	220	230	238	: NC
SC	0	0	0	0	0	1	1	1	3	2	3	3	2	1	1	1	60	62	63	65	64	64	66	68	4	8	5	5	6	7	10		5	9	12	9	11	11	14	17	72	81	83	82	83	84	92	97	: SC
TN	2	1	2	2	6	6	6	5	6	6	7	10	10	13	12	11	137	139	133	138	139	159	162	167	14	14	14	16	21	29	33	32	29	31	35	43	42	64	70	76	158	191	191	209	222	271	287	295	: TN
VA	1	3	2	2	5	5	4	3	15	14	12	13	13	12	10	10	104	111	108	111	118	116	95	101	7	10	10	10	17	22	17	18	25	37	36	36	40	48	43	51	152	175	168	172	193	203	169	184	: VA
WV	0	0	0	0	0	0	1	1	0	1	6	5	3	2	2	2	57	64	71	71	71	76	75	78	2	2	2	3	4	3	4	5	3	3	5	10	11	10	14	15	62	70	84	90	91	92	97	101	: WV
KY	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	2	0	0	22	25	32	99	95	90	0	0	2	4	4	6	6	9	0	0	1	1	15	16	27	0	0	25	31	39	34	121	128	: KY
GA	0	0	0	2	4	4	4	3	0	0	0	3	3	5	6	7	7	0	0	142	138	142	155	156	153	0	0	0	12	16	23	28	33	39	0	0	25	35	44	53	61	72	0	0	184	196	219	246	260	276	: GA
MS	0	0	0	0	0	3	1	1	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	63	67	63	0	0	0	0	0	5	5	8	0	0	0	0	0	11	13	22	0	0	0	0	84	86	96	: MS
TTLS	3	6	9	10	17	21	20	16	33	32	40	46	43	47	41	40	491	519	683	688	707	878	862	871	51	59	73	81	105	134	44	158	76	105	150	166	182	243	270	323	624	721	955	991	1061	1234	1342	1415	: TTLS

OTHER REPEATERS: Georgia has two, Virginia one and Tennessee two 1270 Mhz. Tennessee has two 902 Mhz. 62 Repeaters in Northern Virginia and 4 in the Panhandle of West Virginia were purged in 1990 to accurately reflect jurisdiction of T-MARC territory. E.Ky & Ga. added in 1986, remainder of Ky. in 1989. Ms. added in 1989 as each became SERA Districts.

And God Created Lightning . . .

by Robin Rumbolt WA4TEM

This past memorial day, when Loudon and Sevier counties reported tornadoes, we experienced the worst storm damage even on Shapr's Ridge. At about 4 in the afternoon the storm hit. A large tree on the other side of the road fell across our building and guy wires. Granddaddy lightning bolts streaked past our superb and well proven grounding system and reorganized the innards of most of our equipment.

Damaged equipment included our weather instruments, our transmitter, receiver, power amp, voter, ID circuits, modem, phone line, battery charger, and remote control system. The weather instruments and modem ere totally destroyed. All other equipment suffered repairable damage.

Luckily, only the highest branches of the tree hit the guy wires and building. They were trimmed out of the way by Glenn Thompson N4CKF. The repeater was back on the air the next day on low power.

Them power amp, voter, ID circuits, modem, and remote control system were repaired the next week after replacement parts arrived. (Sometimes it pays to have a homebrew system!) Just after that, a new grounding panel and new lightning arrestors were installed at the site. It took all summer to properly interface a new wind speed and direction unit to the system. In the process, a new instrument was added — a digital rain guage. We still have a very messy site up there that needs cleaning desperately.

Out equipment is all insured via the ARRL insurance program, but it took nearly three months of haggling to get properly reimbursed for the storm damage. I thought you might be interested in knowing the particulars.

If you repair damaged equipment yourself, be aware that the insurance company will only pay for the replacement parts that you can furnish receipts for, not a cent for labor unless a service shop makes the repairs. Then they'll pay whatever the service shop charges up to the covered amount.

We also ran into trouble because I had many of the needed repair parts in stock. They had been purchased months before and held just in case. I did not have receipts. Moral — Don't try to save 'em money. Buy all new parts or have someone else repair things!

Also the insurance company will only consider equipment totalled if a service technician, other than yourself, furnishes a signed affidavid stating so. This causes a real problem when it comes to homebrew equipment, and you're the only person knowledgeable of it. In this situation, ask to fill out a proof of loss form yourself. It took me a bunch of phone calls and a couple of letters to get them to agree to this.

I also found that our modem was not covered. Although the insurance company will cover any newly acquired, unreported equipment up to $1000, if you just pay their bill on the next anniversary and forget to include it. It's not covered! So don't just pay the bill when it arrives. Take a careful inventory **each time!**

The above is not mentioned to criticize the Albert H. Wohlers insurance company. I did not consider myself naive in insurance matters.

Bridging The Communications Gap

Cover Story

— by Harry Bridges, K4UOR

Around 4:15 am Friday, October 27th, I was awakened by my telephone ringing off the hook. When I awoke I could hear the strong wind and hard rain coming down. I hurried into my radio shack to answer the phone before the caller hung up. I answered and it was Janelle Austin of Beach Central. She explained that the bridge over Oregon Inlet had fallen in and her father Gaskill Austin, County Commissioner KA2BPE wanted me to get on the W4ACY Repeater. I did and "Gack" explained to me what had happened. The Nor'easter had slammed the hopper dredge Northerly Isle into the Herbert Bonner Bridge over Oregon Inlet and about 300 feet or more had fallen into the water below, taking with it the power and telephone lines. He needed a Ham at the Command Post that had been set up at the Oregon Inlet Fishing Center which is located at the north end of the bridge. He needed to be in contact with the County Chairman, Manager and other officials. I informed Gack that there would be no problem. I would personally go there as soon as I could get dressed.

I knew that I would need a Ham back here near the phones and other facilities, so I tried to reach our EC, N4QLI Carlton Keys, but was unsuccessful for the time being. Next on my list was WA4NYN Dewey Mann, got him right away and briefed him on the situation and he informed me that he would be on the air momentarily.

I rushed to get ready for stormy weather and grabbed my 2 meter handheld along with the manual for both the 146.940 W4ACY and the 146.835 K4UOR repeaters. I though I may have to do some programming and would need all the info that I had. I also picked up my briefcase of tools just in case. As I left for the 12 mile drive to Oregon Inlet Fishing Center, I tried to bring up the 835 machine, but it wouldn't come up. We were in the middle of a tremendous storm and I could invision all kinds of things wrong with the machine, tower down, lightning etc.

As I drove across the bridge to Nags Head I tried to see the Bodie Island tower but the rain was coming down by the buckets full and the wind was blowing 35-40 miles an hour and there was no way to see it there. By this time Dewey had come up on the 940 machine and we were discussing the situation. It was really frightning driving across the Nags Head Bridge and down Highway 12 to the fishing center. When I was about two miles from the tower I could see that it was still standing and boy was that a relief. When I arrived at the fishing center the place was covered with county, state and federal officials, along with plenty of news media.

It seemed like all agencies concerned were already working good together and had many things in motion. I put Gack in direct contact with the County Chairman and County Manager and Gack informed them what was going on down there and what they would be needing. The officials on the north end briefed him on just what was happening here. The weather would have to get better before a whole lot could be donw on this side.

By this time we had more operators coming on and learning of the disaster. Dewey Mann was acting as net control and got a request from the weather service to run an autopatch to the National Weather Service in Raleigh. He did, but had a problem with the autopatch timing out. By this time I had finished up at the center and had started out to the 835 machine to see if I could bring it up. We had reactivated the W4ACY 146.94 Repeater back in January, 1990 just in case of an emergency like this and it looked like we had made the right decision.

Even though the 94 machine was working excellent I knew that the traffic would pick up and we would need both the machines sooner or later. I quickly programmed the 94 machine so it would not time out and now I had arrived at the 835 site. I really was sort of scared to be messing around the tower and the machine in blowing wind and rain, but our machine housing is fiberglass and I was very cautious about the electricity. I hit the reset button and it came up, boy that was another relief. I suppose that lightning or static electricity had knocked it off.

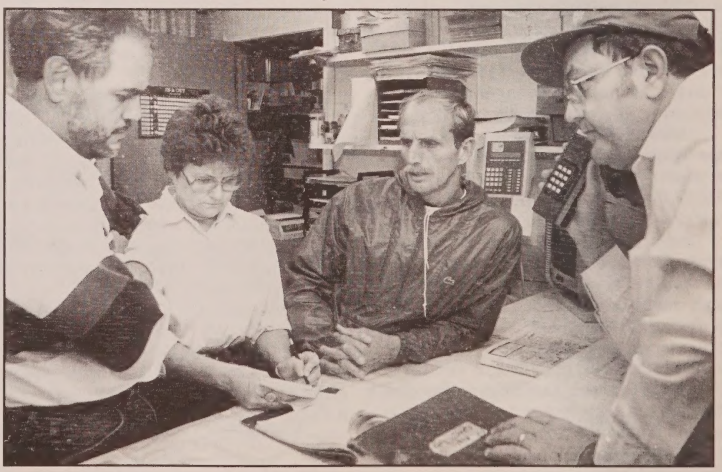
The battery in my handheld was getting weak and I was wet, so I decided that I would run home and get cleaned up and try to get things together. Dewey and other stations were running autopatches for the weather station, phone company, and other priority traffic. I got home around 10 am and turned my rig on in the shack and tried the autopatch on the 835 machine but it would not come up.

The power on Roanoke Island went off somewhere around 10:30 and we went on emergency power. By this time serveral stations had gotten on emergency power on Hatteras Island and were in operation. My phone started ringing and the people calling were wanting to pass health and welfare messages to Hatteras, we passed some but kept both repeaters open for priority traffic. Ray Black, WB4FRB in Frisco had emergency power and was operating but at first he couldn't get his phones to work. He tried his fax line and it was operational and used it. He had 15 inches of water in his garage and this was probably one reason he was having trouble getting his phones working.

Gack made the suggestion that we give out the phone numbers of the Hams on Hatteras Island that could get a message to the EMS of any emergency. The National Weather Service put out the message on the NOAA frequency. This was to be emergency traffic only.

Sometime around 11 am AB4W Reed Whitten, the state EC called and briefed me on what they had done and gave me several numbers to call if needed. We gave him and other agencies our reverse patch number and this proved to be the way to get traffic to and off Hatteras Island. Help was being offered from many and it was surely appreciated and needed. Around 2 pm the power was restored on Roanoke Island. I knew that we would be needing the autopatch on the 835 Machine so Dewey and I decided to go down and check it out. We discovered that the problem

Continued on Page 13



County Officials Bob Slade, left, Gwen White, Mikey Daniels, and Harry Bridges, K4UOR President of the Dare County ARC talk with County Commissioner and Hatteras Island resident Gaskill Austin by 2-meters in the pre-dawn hours Friday, concerning the downed Bonner Bridge. Amateur Radio was the only link with residents of Hatteras island and the mainland that first fatefull day. -Photo Ctsy J. Wooten

The Communications Gap

Continued From Page 12

was in the phone line and not the repeater, another relief. We started back to Roanoke Island with a stop at the Command Post now located at the National Park Service maintenance buildings at South Nags Head. There we were asked what we could do about all the request for health and welfare messages that needed to get off Hatteras Island. We discussed it on the way back to Roanoke Island and got on the radio and called for a meeting on the 835 machine.

By now the priority traffic was all being handled on the 94 machine and we thought that we could devote the 835 machine to health and welfare. The people that would be carrying largest load would be of course the stations on Hatteras Island. We knew that once we gave out their phone numbers for the people to call that they would be swamped. The stations on Hatteras, WB4FRB Ray, KA2BPE Gack, KA2BPQ Eilene, and KA8AJR Jim, didn't hesitate with let's go for it. We then informed the weather service to put the phone numbers on the NOAA radio station and I called the local radio stations and they broadcast those numbers. In just a short while their phones started ringing off the hook and the work began. A sample of the traffic is, Telephone number to call collect, to, From, All OK will call ASAP and will catch first ferry I can get on.

I called the telephone company and informed them of our situation on the 835 autopatch and they responded within minutes with a call back from the man who was going down to check out the problem and within an hour and a half they had the problem fixed and we were on the air with two autopatches although the bulk of autopatch traffic went thru the 94 machine.

Things were beginning to smooth out by now but, still at a fast pace especially for the Hams and Hatteras. The bulk of the traffic on Hatteras was handled by WB4FRB Ray Black, KA2BPE Gaskill "Gack" Austin, KA2BPQ Eilene Austin, and KA8AJR Jim Shimpack with other help at those locations. Also helping on that end was N4JCP Peter Loewenstein, and N4JEC Bill Rowland.

The bulk of the traffic on this end was handled by WA4NYN Dewey Mann, WB8PAG Fil Nutter, N2DYN Angelo Morris, N4QLI Carlton Keys, N4REZ Margie Keys, W0JEH Clarence Skinner, KB4SAL Glenn Campbell, KA5VZG Alan Schriver, KA5WJZ Terri Schriver.

Also helping on this end was N4ACT Jim Bailey Jr., WB4ZJP Joe Miller, KY2C Edward Goodwin, W4TLA B. Warren, KB4TOH Mike Cahoon WT4C A.F. "Slim" Bloodworth.

Handling traffic on the KB4TOH 145.11 Columbia, NC repeater was WA4MOK Bernie Nobles, WN4A Floyd Brothers, WA4SLC Bill Dawson, KC4AJM Charlie O'rear, N4SFB Len Downing, N4WKM Charles Thorne, K4VHV Al Onley, N4VQJ Glen Burks, WM4D Ken Wilkerson and W4UEB Joe Wright.

Before it was over the people listed above would handle over 100 emergency or priority and 516 health and welfare messages. Things started slowing down around 11:30 Friday night with KA5VZG at the helm and he turned it over to N2DYN who stayed up all night to take care of what traffic there was and he did handle some thru the night. The traffic numbers given are single pieces of traffic counted only once.

I arose about 6 am Saturday morning to be at the Command Post at 8 for a meeting for all agencies involved. That meeting went as good as any that I have attended and things were working out just fine. When the county manager was through and everyone had their instructions for the day, I requested him to brief County Commissioner Gaskill Austin on how everything was going and of course we had to use Amateur radio to do this. The County Manager gave Gack a very good briefing and then handed the mike to the County Chairman Mikey Daniels and he also filled Gack in on a few things.

I stayed at the Command Post that Morning and acted as net control on the 94 machine and by that time the health and welfare traffic had started on the 835 machine and that lasted pretty much all day. Some of the interesting traffic handled that day was calls to Doctors regarding treatments and patient condition, calls to pharmacies regarding medications for humans and animals, wedding arrangements when then groome was on Hatteras and the bride was at Nags Head. (A touch of humor but very serious to the determined couple.) He made it, 8 hrs. late, on Saturday. They both were very thankful to Amateur radio.

WA4NYN Dewey Mann relieved me at noon that day and I went home for a little rest, but hung around the radio all afternoon helping as much as I could. The health and welfare traffic was going as strong as ever on the 835 machine and our people were doing an outstanding job handling traffic. We were still handling priority traffic on the 94 Machine until after 6 pm. That traffic was Red Cross, Power Company, National Weather Service and Emergency Services etc. Around 6:18 the phone company restored the phone lines and the traffic started to lighten up although it did not stop. The lines were swamped and could not handle all of it at once. It was a relief for it to slow down, everyone was getting tired and the folks on this end was tired of hearing the AT&T chimes.

Most of us were on the air Sunday, but the traffic had gone to the phone lines by now and we were enjoying the rest. I talked to some of the people on this end about how the messages were received and they all told me that the people just couldn't thank them enough. W0JEH Clarence Skinner said that the folks on the receiving end of the traffic was what was keeping him going. He heard, quite a few times, "God Bless You and Amateur Radio." I suppose that we may have prevented a few ulcers and heart attacks by getting the good news to those people.

A couple of days after everything had cooled down, Pat Cahill, Manager of WOBR Radio in Wanchese, called me to apologize for being a bit slow in getting the emergency generator going when the power went off Friday morning. I informed him that we had a backup battery in place and we didn't know that the radio station had gone off the air. The 94 Machine didn't miss a lick.

Observations and Critique

There had been some reservations in some peoples minds about two repeaters on the Outerbanks. Let there be no mistake about it. If we had not had the two repeaters here in operation we could not have begun to handle the traffic we did in the critical time we needed to.

All the training and preparations really paid off in the time of need. Everything fell right into place and things really went smoother than I expected.

It became evident early on that positive control of a repeater is very important when running emergency autopatches etc. We have that control over the 94 machine and have good control over the 835 machine, but it is quite a bit more complicated to set the 835 machine up for emergencies. We can put the 94 machine in emergency statis in a matter of about 2 seconds and we are working on a plan for the 835 machine for the future.

Until this disaster, the feeling around the Outer Banks was that there was no need to link the 94 machine with the 145.11 Columbia repeater. We can hit the 11 machine from most places on the Outer Banks especially north of Oregon Inlet. We would like to be a part of the PCRN and have been in touch with them and maybe we will be able to get into that system in the future. But I now see that need to link with the 11 machine even if we don't get any further. There were numberous occasions during the emergency that it sure would have made things easier if we would have been able to link.

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Late News Item!

FCC Announces New Code-Free Technician Will Be Effective On Feb. 14

After we had closed our story and that portion of the Journal about the new NO-Code licensing structure ordered by the FCC, we later found the effective Date to be February 14.

Instructors and VECs are already gearing up for an expected influx of hams-to-be resulting from the announcement.

Meanwhile, the ARRL continues readying their Petition for Reconsideration on the new rule. The League does not feel the new Techs should be granted 6M & 2M.

More-SERA Board Meeting
New Additions To Be Added To Repeater Index

David Ward, KA4LVO, Computer Chairman told the SERA Board that two new additions would be incorporated in the Repeater Journal Repeater Index, beginning with the February edition.

(1) Tone accessed repeaters will be listed with codes identifying access codes. The letter "T" will identify the repeater as tone accessed, followed by a "one-letter, one-number" code which identifies with national commercial identifiers with national commercial identifiers of subtone code frequencies. The codes and frequencies will be listed in a box in the index for handy reference.

Repeater owners with tone accessed repeaters who wish to have them identified as such should drop David Ward a note, listing the State, City, Call and Frequency of the repeater, and the subtone access frequency. David will see that they get included in future listings. David's address is on Page 2 of the Repeater Journal.

The second change to the index will incorporate a new code for "Emergency Power" for repeaters requiring that listing. He plans to get the information, as available from Data sheets mailed in at the end of last year. Any other repeater owners wishing to have this designator added to their listing should contact David by letter, containing the information as with the Tone access information.

Riding In Style At Shelby Hamfest

Benny Peterson, WB4SQC and Roger Forbes, WB4FSN of Johnson City, In. know from experience that it's a long way across the Shelby Hamfest fleamarket, so they brought their own transportation. They were seen frequently riding around the Fairgrounds with their golf cart, named "29 Hog" which apparently was for his 145.29 repeater. A late report this year, Benny said that he had moved both his WB4SQC repeaters, 145.29 and 443.425 from Holston Mt., to a 3,400 foot site on Buffalo Mountain, south of Johnson City. Both Motorola repeaters are on a Diamond dualband antenna with hardline on the WQUT tower. Control and linking is via cellular phone with donated phone and air time by Cellular One. Benny said the new location is working great!

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South Carolina Ramblings. . .

— by Gary & Donna Foster, WD8OXE & KB4TUY

For sometime, South Carolina has been without representation in the Journal. We have volunteered our services to collect information and write about South Carolina. I have been licensed since 1974, my interests not only include repeaters but also Homebrewing QRP equipment, QRP CW operating and Shortwave & Utility Band monitoring. My wife Donna has been licensed since 1986 and enjoys talking on 2 meters and attending Hamfests.

We are soliciting information pertaining to repeaters, repeater upgrades, packet nodes, club activities, human interests, etc. . ., so we may get it published in the Repeater Journal. Please also include any Amateurs name and call sign that assists in any of these activities, so they may be given credit. If you have a club newsletter, we would appreciate you placing our names on your mailing list so we can obtain additional information from it. Our address is 670 Foster Road, Inman, S.C. 29349, or call us at (803) 592-9225.

• • • • •

RAMBLINGS. . .The Sumter 147.015 machine lost its antenna during Hugo and has been operating off a quarter wave mag mount antenna horizontal off the side of the tower. The repeater is now back up to par with a new antenna at 800 ft. . .

• • • • •

The Columbia 146.88 repeater which was located on the Blue Cross building just off I-20 east of Columbia has been sold to a group in Georgia. We understand one of the main reasons for the demise of this machine was that it had been plagued with interference problems from an 88 machine in another state.

• • • • •

The KB4CO 146.685 machine in Newberry is providing great coverage and is seeing more and more activity including a weekly net on Wednesday night that everyone is encouraged to check into. . .

A new machine is now on line in Calhoune County. The AD4U 146.67 repeater is located in St. Matthews and is providing much needed coverage in that area. We understand that it has a lot of bells and whistles including autopatch. We would like to hear more about this one if someone will drop us a line. . .

The most active repeater in Columbia now seems to be the KC4LB 145.43 machine. . .The Orangeburg repeater on 147.09 has been upgraded to provide better coverage. The antenna has been raised an additional 120 ft. and power increased to 25 watts. Signals into Columbia have went from S-2 to S-7. . . The Columbia downtown repeater 146.715 is providing great HT coverage in the downtown area and is host to most of Columbias special events. . . Speaking of Columbia, Winston W4WL is the repeater guru for that area and can be heard working on and maintaining most of the machines.

• • • • •

The 147.09 Spartanburg repeater has been moved to a new location. The repeater is now located on the Southern Bell Tower at Pine and Main Streets. The antenna is at 250 ft. and mobile coverage is about 20 miles North and West, 30 miles South and East. Special thanks go to Southern Bell for the site and also to Steve Foster N4SZ for negotiations and installation. . . The Spartanburg Amateur Radio Club recently held a yard sale for their repeater with members donating items for the sale. Everything from dishes to furniture was sold to a overflowing crowd of yard sale fanatics. Parking was even a problem in the large parking lot. Over $1800.00 was raised in 4 hours. This sounds like a good way to clean out your attic and make money for your repeater. Thanks goes to the Metro Center for the donated space.go to Southern Bell for the site and also to Steve Foster N4SZ for negotiations and installation. . . The Spartanburg Amateur Radio Club recently held a yard sale for their repeater with members donating items for the sale. Everything from dishes to furniture was sold to a overflowing crowd of yard sale fanatics. Parking was even a problem in the large parking lot. Over $1800.00 was raised in 4 hours. This sounds like a good way to clean out your attic and make money for your repeater.

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The Sassafras Mt. AJ4N 224.06 repeater is being upgraded with a SCR-77 repeater, Waycom 652 duplexers and DB products antenna pointed South with 100 watts ERP. . .

The Telephone Pioneers Amateur Radio Club under a special Grant from Southern Bell Telephone, is in the process of installing a State wide 220 voice and packet network. This will include seven voice repeaters and Seven 220 nodes at 9600 baud with gateways from 2 meters and a backbone into Georgia and North Carolina on 145.75. When this system gets on line we hope to bring you a feature article about the complete network and what brought it about.

• • • • •

For those of you that have lost track of him, Tim Webber WD4CHS is now living in Columbia. Tim has lived all over the State including Myrtle Beach, Spartanburg, Clemson and Charleston working for a major retail chain. Tim has always been very active on 2 meter FM and repeaters and claims to have friends on most 2 meter repeaters in the State. As usual Tim has a good location and can key up most of the repeaters in the State from his home QTH. Tim can be heard on Dillon 146.745, Inman 145.15, Anderson 146.79 and has a schedule with his father Oliver WD4CHR on Sunday night on 147.21 Little Mountain.

• • • • •

George Allan GM4HYF from Glascow, Scotland visited with us in October. George, a fellow QRP enthusiast could not get over our system of repeaters. George explained that the rules and regulations in the U.K. are very strict with only the minimum number of repeaters licensed to cover the country. Their 2 meter band is from 144-146 with the repeater in what would be our Sub-band. All the 2 meter frequencies are referred to by channel numbers proceeded by a S, i.e. S22 is 145.21. George stated there was more simplex activity than repeater with alot of CW practice on simplex. George is recently retired and has worked all over the world on QRP CW. His life long dream has been to come to the U.S. and operate from the other side of the pond. George sat down at our low band rig and in no time had run 10 European stations on 15 meter CW. He looked long and hard for Scotland while he was here but the closest he came to home was a G0 in London on 17 meters. George also visited with the stations of Bill K4II (DX big gun for this area), Joe WA4PGR, Fritz W4NTO, Jim KA4LHG and attended the club meeting of the Spartanburg ARC and operated the clubs 2 meter station K4JLA. Since his return to Scotland, we have worked him on 15 meters and 18 meters on a regular schedule with 5 watts on both ends.

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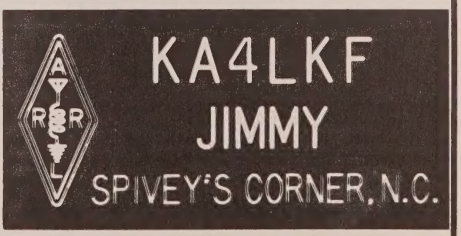

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II-Morrow Gets License To Experiment on 220

II-MORROW, Inc. the United Parcel Service subsidiary charged with designing and building the new ACSSB communications service for its parent corporation, has been issued an experimental license for operation in the former 220-222 Mhz. Amateur Band. The FCC issued II-MORROW the callsign KC2XJO and gave it permission to begin experimental use of the band immediately. — *Tnx Westlink*

SERA Celebrates Its 20th Year of Service

The year of 1991 marks the 20th Anniversary of the SouthEastern Repeater Assn., Inc. The organization, one of the early organized repeater coordinators in the country was incorporated in 1971.

It all started in North Carolina, branched to South Carolina and Virgina in the '70s. In the 90's Tennessee, Georgia, West Virginia and Kentucky came on board, following finally by Mississippi.

The organization changed names from The North Carolina FM Repeater Assn. to the Carolinas-Virginia Repeater Assn., and then finally its present name.

SERA in its modest beginning had only about 15 repeaters to coordinate. Today, SERA is keeper of the frequencies for over 1,300 repeaters in an 8-State area. Although trouble spots crop up every year, generally they are solved for the most part. The 8-State territory of SERA is known to be one of the most trouble-free areas in the United States.

SERA is the second largest Coordination Council in the Nation. In terms of a single body coordinator, it is the largest. The organizations database of repeaters if the most complete, most up-todate and largest in the nation.

Today, SERA owes its success to the very cooperative repeater owners and users in the territory it serves. Quantity is not generally the word SERA looks for, but quality. We do not solicit other territories to become part of us. In all cases, every state in our area asked for inclusion of the SERA umbrella and were accepted on a partnership basis, with an elected board of officers, and directors representing equally every state.

SERA Directors in each state have more information at their fingertips as far as repeaters, owners, users and other statistics than anyone could ever dream of having. Cooperation of repeater owners in providing up-to-date data sheets keeps the SERA database at the top.

SERA hopes to move closer to repeater owners and especially repeater users in the future with plans for Statewide meetings and changes in the Bylaws to allow users more say in the organization.

SERA will continue to be a spokesman for our Amateur population in the 8-states and continue to provide as trouble-free environment as is possible with todays crowded 2-meter repeater spectrum.

Contact your Director, he is eager to assist you in any way he can. Help SERA to continue to be the best it can be!

A Church Repeater

— by KB4RRC

Ever imagine folks at a local church in your area forming a ham group and constructing a repeater? Well it happened in North Spartanburg, South Carolina. In December, 1989, Amateur members at the First Baptist Church of North Spartanburg decided to build a repeater with the primary objective to provide a much needed Autopatch for the Spartanburg Area.

It was evident that the newly installed 145.150 wide area coverage repeater on Tryon Peak in North Carolina could not feasibly provide telephone service to the Spartanburg Area. Also the 147.09 Spartanburg Amateur Radio Club repeater could not provide Auto patch at that time.

Being a small group we purchased an inexpensive controller, The Micro Computer Concepts RC-1000. The first transmitter/receiver was the guts of a Regency HR-312. This arrangement did not work well using seperate antennas on the church building 100 feet apart. The transmitter and receiver were not designed for narrow band use and after 3 weeks of frustration the prototype died.

However, the bug had bitten. After visiting a local radio shop and looking thru trade magazines, one company was offering 132 to 150 Mhz 45 watt Motorola Micro Transceivers for $80.00 a piece. We were back in business! We signed the N4UZT repeater on the air a second time on January 20th, 1990, operating with 12 watts and yielding an operating range of about 6 miles.

Fair! but our work was cut out for us! After 9 months of continuous upgrades and improvements such as antenna replacements duplexer installment and better coaxial cable. The system has improved dramatically. Transmitter power is up to 40 watts yielding a total ERP of 100 watts. The range is approximately 15 miles in a 325 degree pattern with a slight blockage to the Northeast.

Of course with a low altitude repeater and hilly terrain, there are dead spots but none severe enough to limit the coverage area for mobile and base transceivers. The autopatch is connected to the church PBX system which automatically restricts 1's and 0's but allows 1-800 numbers to go thru. This allows toll free access to Law Enforcement in Columbia, 100 miles south. This also allows better control of the repetater by telephone line. The trustee of the repeater, Jimmy Fender, N4UZT is also director of Facilities of the church.

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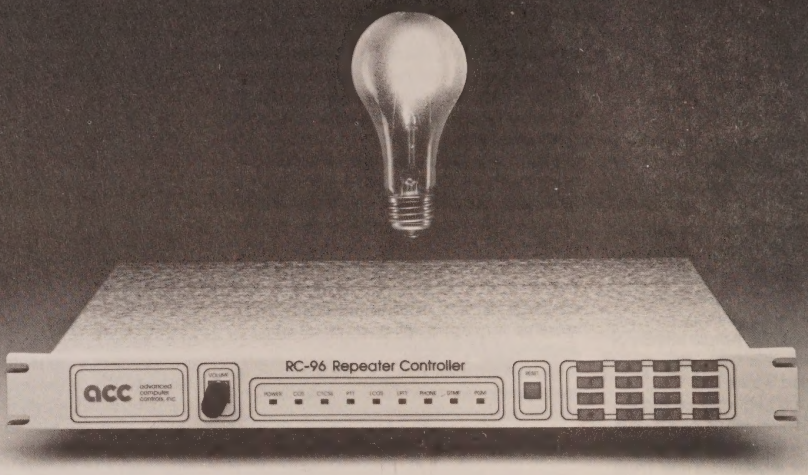

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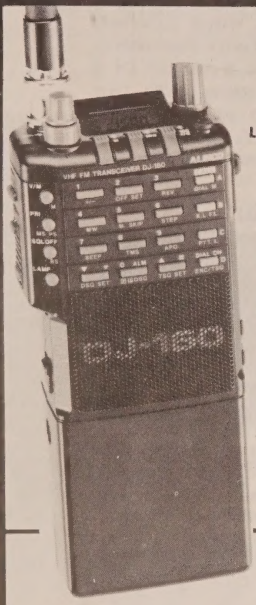

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2-Meter Handheld

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- 20 Memory channels and 1 call channel
- 3-Watts out on Standard 700 Mah Battery
- Built-in DC to DC on Battery (More Power)
- 6-Watts on Optional 12V 700 Mah Battery
- Keyboard entry — or by Up/Down keys
- Extended receive (137-173.995) Modifiable
- 5-different channel Steps in VFO
- 3 Scan Modes (Memory, Band or Program)
- Subtone encode included
- "Dual Watch" (scan between call, VFO & Mem)
- "Priority" (can be used with VFO, Mem or Call)
- Automatic Battery Save Mode
- Automatic Power Off Function
- Two autodialer memories (up to 16 digits each)
- "Pager Function" (for individual or group alert)
- "Dial Function" (change frequency or memory)

DJ-460T 440 Mhz.
Full Featured H/T
$269.00

DJ-120T

2-Meter Handheld

List Price $299 **$209.00**

The ALINCO DJ-120T is the most compact, versatile 2-Meter H/T for the price anywhere. No need to look for a heavy duty battery. The DJ-120 comes with a 700 mah battery as standard. DC to DC, and subtone encode is also included. The DJ-120T is tuned by scanning in the desired frequency to the LCD readout. 10 Memory channels and call channel is available by scanning in with memories button. Reverse operation, receive 134-174 Mhz. Over 3-watts on standard battery, about 6-watts on DC or optional 12-volt battery. (6-1/2 x 2-3/8 x 1-3/16 with batt.)

Best Buy! In The Country!

Please Add $4.00 UPS Shipping or $6.00 USPS Shipping Per Radio Order. For Phone CODs Add $4.00. NO CREDIT CARDS. N.C. Residents Please Add 5% Sales Tax. Prices subject to Change Without Notice or Obligation.

DR-110T - 2-Meter 45-Watt Transceiver

The ALINCO DR-110T and the DR-112T are identical radios as far as features are concerned. The main difference is the LCD Readouts. If you are in bright sun a lot - the Black LCD with Orange Backlight on the DR-112T will benefit you most. In the shack or elsewhere, the extremely handsome Red LCD readout of the DR-110T is suitable. Either ALINCO you choose, you cannot go wrong.

DR-110T - Red LCD Readout **299.00**

DR-112T - Black LCD Readout **309.00**

The DR-110T or DR-112T has: 45-Watts of 2-Meter power. The very small units measure only about 5-1/2 wide and less than 2-inches high. Subaudible tone ENCODE and DECODE are standard. 14 Memory channels are easily accessed by the main tuning knob, or from your microphone, which contains up/down tuning buttons, and 16-position DTMF touchtone. The DR-110T/112T transceivers have reverse operation, call channel and priority channel. A unique spring loaded mobile bracket allows easy removal with no bolts or screws to turn. The radios face panel is well displayed and easy to understand. Grab yourself 45 hot watts of power today with the ALINCO DR-110T OR THE DR-112T. The famous ALINCO 2-Year Warranty is on both units, and the great Williams Radio customer service offers 100% guarantee, and modification sheets included in the box with no extra charge.

DR-112T - 2-Meter 45-Watt Transceiver

Williams Radio and ALINCO just finished another record shattering Year of Sales. ALINCO continues to be the talk of the Ham Bands as more Amateurs learn you can get so much more for so little with ALINCO. Take a moment to discover what so many of your Amateur friends have already learned - Williams and ALINCO can provide you with a 2M or 450 or Dual Band transceiver or H/T that will do the job you would expect to pay much much more for. And how about Quality? ALINCO offers an unparalled 6 months full warranty, and 2 year Service Warranty - no other manufacturer has tried to match! In addition, Williams guarantees your ALINCO 100% when you get it, or we replace it - NO hassle! We also charge your H/T Battery. With service like that, it's no wonder Williams Radio has maintained for two years straight - the distinction of the top Alinco Dealer in the Nation.

WILLIAMS RADIO SALES
600 LAKEDALE ROAD
COLFAX, N.C. 27235

ORDERS ONLY - NOON to 5:00 PM
(919) 993-5881
ORDERS & TECHNICAL 7 to 10 PM

The Magnificent Alinco Trio!

WE'RE CUTTING PRICES WITH A B-A-N-G!!

WE'RE CUTTING PRICES WITH A B-A-N-G!!

ALINCO DUAL BANDERS

Williams is Offering A Very Limited Special on ALINCO Twin-Banders. These Great prices are a result of a Special Factory Purchase with our Savings passed on to you.. Prices below are good ONLY for present stock which may run out any time!!!

DR-590T 2m/440 Transceiver

Regular Price $629.00
Add Shipping
Limited Supplies!

$589.00

WE'RE CUTTING PRICES WITH A B-A-N-G!!

It's Alinco's Newest, most exciting Twin-Bander. The NEW DR-590T may be remoted with its optional remoting cable. 45/35W on 2M & 440, the DR 590T will carry its weight in any situation. Crossband Repeating is a snap. The DR-590T has a unique microphone, which allows you to tune memories, bands, codes and autodialer., plus 16 position DTMF. LCD readout visible in ANY lighting contitions, scans, a total of 40 memory channels, extended receive coverage, auto band exchange, full crossband duplex and much, much more.

Remotable "Twin-Bander"

Please Add $4.00 UPS Shipping or $6.00 USPS Shipping Per Radio Order. For Phone CODs Add $4.00. NO CREDIT CARDS. N.C. Residents Please Add 5% Sales Tax. Prices subject to Change Without Notice or Obligation.

DR-570T 2m/440 Transceiver

Regular Price $549.00
Add Shipping
Limited Supplies!

$519.00

WE'RE CUTTING PRICES WITH A B-A-N-G!!

The Alinco DR-570T continues to be Alinco's most popular "Twin-Bander". With 45/35W on 2M and 440, it will act as a cross band repeater with the flick of a switch. The DR-570T has 20 memory channels, LCD readout visible in ANY lighting conditions and sub-tone encode/decode. This famous radio has amazing extended receive coverage and all the other features you would expect in an Alinco "twin band" radio. The DR-570T will stand up against any comparable radio and win!

We Stock ALL ALINCO Accessories!

Alinco "Twin Bander"

WILLIAMS RADIO & ALINCO - The unbeatable combination!

DJ-560T - Twin Band Handheld
The One We've Waited For!

Regular Price $399.00
Add Shipping
Limited Supplies!

$379.00

Magnificent! That's the word often used to describe the new Alinco DJ-560T Twin Band Handi Talkie. The unit ie small, compact and loaded with features you thought you would have to spend many hundreds to get. The DJ-560T has dual black LCD readouts for 2-Meters and 70-Cm. The 40 memory channels allow you to store your favorite pairs. Access is easy with the powerful 3/2-Watts (VHF/UHF) on the standard 700 mah nicad battery. Built-in DC to DC allows additional power off any 12-14V DC source. CTCSS encode included, several scanning modes, keyboard entry, autodialer memories are just a few of the great features of the DJ-560T Twin Bander.

WILLIAMS RADIO SALES
600 LAKEDALE ROAD
COLFAX, N.C. 27235

ORDERS ONLY - NOON to 5:00 PM
(919) 993-5881
ORDERS & TECHNICAL 7 to 10 PM

Do It Until Your Gigaherz!!

— by Ed Loughlin, KB4KIN

What a title! What does it mean? If you think that 2 meters is somewhere North of NF, you haven't seen anything yet! Welcome to the world where Low Band means 430 mhz and where jumps to the next band above can mean crossing spectrum equal to almost all of that below it!! On some bands you can hold 15 to 30 db of antenna gain in one hand! Try achieving this on 80/40/20 meters! This article will deal with one band in particular, the 1200mhz, or 23 cm band. I want to get one thing clear to begin with: I am not a expert, only an amateur interested in the glowing spart (no pun intended) in all Hams!! EXPERIMENTATION.

Let's look at our lowest "microwave" band. It covers 1240 to 1300 megahertz, or 1.2 to 1.3 Gigahertz (ghz). The band used to be much wider (1210-1300mhz), yet was reapportioned some years ago since amateur utilization was slim to none! Did you ever know this, or is the 220 grab all you heard? About 30 megahertz of frequencies were taken, that's megahertz taken not kilohertz; and think that 20 meters is only 350 khz/.350mhz wide. Anyway, what is left is a band 60 mhz wide. What is it used for and who is up here is as diverse as the lower bands. The ARRL band plan lays out various uses for each sub-bad as in the lower bands. Generally speaking, the present users include: ATV, Narrow Band FM, Satellite, SSB, FM, CW, SSTV, FAX, ACSB, EME, and beacons.

One must remember the old adage: "Those who do not remember history are doomed to repeat it". If you have been in the hobby long, remember the comments on 5 & 6 meters, 2 and finally 70cm. "It will not work!!" "Wouldn't catch me buying any equipment on that dead band (2m&70cm)!!" "Hey, buddy where's the rest of your antenna!!!" They were all wrong and these "UHF" bands are now the mainstay of all non-HF amateur communications. Each band is different and presents a special challenge to both its early pioneers and everyday users. The 23cm band DX record is nearly 1000 miles. Suffice to say it does work, even at modest power levels (1-10 watts) as compared to the higher powers required on the lower bands. On more thing: SAFETY. At the power levels most people can afford, 1-25 watts, there is no significant risk in using this or any other "microwave" band. Only common sense is needed here. Just as you wouldn't leave the power supply and tank circuits exposed in your HF gear, microwave common sense means not peering into feed-horns or standing in front of high gain arrays fed with considerable power (100+ watts). That's all!! Your wallet will keep most folks out of trouble, for example a 75 watt 1.2 repeater amp is about $700.00!

Now for the Atlanta scene. Local use of 1.2ghz is centered on two primary uses, with a third entering the scene soon. The first user of 1.2ghz is satellite users utilizing Mode "L", transmitting up to the OSCAR satellites on 1.2 and receiving on 70cm (430mhz). The next users are those on 1.2ghz FM repeaters. Say you never heard of them? Well, this article will acquaint you with this mode of operation. The third use will be users of a ATV repeater with a input/or output on 1.2ghz. I might mention briefly that there is some weak signal work on ssb/cw happening as well.

Now how has 1.2ghz worked here in Atlanta!! Quite well in fact, considering there is 8db more free-space path loss than on 70cm. But to even things out antennas are 1/3 smaller too, making gain improvements easy to accomplish. For example a 16 element yagi has 17 db of gain in only 4½ feet. There are two repeaters on 1.2ghz in the Atlanta area: KB4KIN on 1272.00/1292.00 mhz located on the Southern Bell Building; W4DOC on 1271.4/1291.4mhz (presently being relocated off the WFOX tower to a site more accessible for Atlanta users. Probably will be located in the Buckhead area, or North Atlanta. Will advise when it is at its permenant site.) Both units are ICOM 1210 repeaters running 10 watts output. Antennas are COMET Ca-1221S, ½ wave 21 step collinear, 15.5db gain, and 8½ feet. Previous use of a Larsen 9db antenna was satisfactory on KB4KIN/r, yet was determined to be defective for the W4DOC/r antenna, a COMET CA-1221S is going to be used on this one as well. A Telwave #1292 duplexer utilizing 4" cavities is used on KB4KIN/r, with W4DOC opting for a ICOM band pass/band reject mobile-pak style notch cavities. Feedline means two things on this band: (1) N connectors, (2) Hardline. A PL-259/SO-239 connection here is a 3db penalty (50% power loss). Connections to the duplexer is via ¼" super-flex hardline, presently KB4KIN/r is using about 50' of ½" Andrews hardline (soon to be changed to 1⅝" line for a 80% performance gain.) W4DOC/r was mounted at the WFOX tower at the 1430' level on the tower with the antenna 30' below the repeater with ⅞" line. (See above note on larsen antenna.)

You now will want to know the entemal "HOW FAR?", "HOW MUCH POWER?", "WILL IT REACH AROUND THE BLOCK?" I have been doing acid tests for the last year on the KB4KIN/r with an ICOM IC-12AT, 1 watt 1200mhz HT. I live in Newman Ga (35nm from repeater) and commute to Griffin to work, and given some good locations I can work into the machine in most clear places with the HT inside the car. I like to think of 120mhz as "PURE UHF", meaning if you cannot see it you cnanot work it. Forget ground wave, and learn to count o n building scatter or multipath to get the job done. One only needs a fairly decent shot to work the machine. What's decent? I could get into the machine great, DTMF control etc., from the Lawrenceville hamfest parking lot. Shannon Mall (Southwest of Atl.) will get full scale inside the car. From the top of a 500' tower I have in Forsyth, Ga. 100mw will get through 50+ miles, again full scale. Most areas within I-285 are no problem, except in a few low spots and high foliage areas. I have talked to Tom Ingle W4ZTL and John Clowe W4ZPG several times from Senoia, Ga.

Most users on the machine now are AMSAT members using their satellite setup for FM use. We are trying to set up a net and other activities. The easiest way to get on the band is with some of the numerous transverters available on the market. These have outputs on 10,2 meters and 70 cm.

One last comment: The microwave bands need utilization to be kept. They work well when used to their advantage. They will be needed by future generations of amateurs for complex digital use. The code/no-code question has one basic fault!!! It presumes that there are and will be frequencies to use it or any other on. Without these frequencies being held, the code/no-code question becomes "Your practice oscillator or mine."

1991 Charlotte Observer Marathon Communications

On January 5th members of the Charlotte Amateur Radio Club W4CQ, provided communications in this year's Charlotte Marathon. The NCNB's Masters 10k, Women's 10k, Bryant Men's Open 10k, and the Marathon (26 miles, 385 yards) were covered by 17 Radio Amateurs. Communication was maintained with the Pick Up-Van, Police (which is also the lead vehicle), emergency medical personnel and their vehicle, race officials, start and finish lines. WSOC-TV (local TV station covering the event), most of the aid stations, and back to net control which was at the finish line at the Charlotte Convention Center.

The net was conducted over the club's repeater W4CQ/Repeater 146.46/147.06 Mhz. The club kept track of the lead runners, runners to be picked up, who was picked up or in need of help, as well as where the last runner (or walker) was.

The following people should be thanked for a job well done, especially since most of them braved the cool weather. At the aid stations were Don Biltcliffe N4FNR, Lewis Cloninger KF4TJ, Bob Doran K2VJ6, Bill Dunlop WA4FKY, Byron Kendall KB3ZT, Francis Nakamura WB4ETF, Jim Pilker KK4N, Bob Price KB4BVH, Nestor Ravenna KI4UED and John Yandell N4XNS. with the pick-up van was Jeff Clud W4USH. Richard Casanova KC4KBO was riding with the Charlotte Lifesaving ambulance. WSOC-TV liaison was Buck Escott WB4OTP. At Police Liaison was Bill Jordon AA4ZF, Net Control, W4CQ, were Thelma Reynolds WA4JLW and Paul Reynolds WB4MCI, who also served at the finish line, Race Coordinator Liaisonand organized the communications along with the Charlotte Observer (newspaper).

After the Marathon was over, a few of the club members got together at a local restaurant to discuss the day's events.

The next day the Charlotte Amateur Radio Club received a full page "Thank You", along with other organizations, from the Charlotte Observer.

THE SERA OFFICIAL REPEATER INDEX

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Repeater owners are reminded to contact their local Frequency Coordinator (Director) for assistance in coordination, changes in their listings, or any other requirements.

DISTRIBUTION OF REPEATERS BY FREQUENCY

This by-frequency index contains repeaters in the States of Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee, Virginia and West Virginia.

PLEASE NOTE: The letters column between the frequency and the city indicates suffixes of the repeater callsign.

This index is correct as of January 21, 1991.

SERA Suggested FM Simplex

146.40* 146.415* 146.43* 146.445* 146.46* 146.475* 146.49* 146.505* 146.52146.5351 46.55 146.575 146.580 146.595 147.510 147.525 147.540 147.555 147.570 147.585 223.50 or up and down 20 khz channels 446.00 or up or down 25 khz channels

* Permitted unless causes interference to nearby repeater input.

SERA Suggested Digital Simplex

145.01 145.03 145.05 145.07 145.09 145.61 145.63 145.65 145.67 145.69 221.05 221.15 221.25 221.35 221.45 223.40 223.42 223.58

NOTE: Digital operators are reminded to check with local Digital Societies for which digital channels are available for various digital usage, in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage.

2 METERS

4.51 /5.11
- TUN AUGUSTA ..... GA
- UOX DOUGLASVILLE ..... GA
- HYE MENDENHALL ..... MS
- TOH COLUMBIA ..... NC
- RXG SAURATOWN MT ..... NC
- JMT CONWAY ..... SC
- Y COOKEVILLE ..... TN
- SBX GRAY ..... TN
- BOX JACKSON ..... TN
- IJL KNOXVILLE ..... TN
- ARK NASHVLE/FAIRVIEW ..... TN
- YPE RICHMOND ..... VA
- MCRSALT ROCK ..... WV

4.53 /5.13
- JF ADEL ..... GA
- SEX NEWNAN ..... GA
- YNF AHOSKIE ..... NC
- CS GREENWOOD/HODGESSC
- CMY CHATTANOOGA ..... TN
- OAK LAFOLLETTE ..... TN
- VL GALAX/LKOUT MT ..... VA
- FHE BUCKHANNON ..... WV

4.55 /5.15
- MM ALBANY ..... GA
- AQL ATLANTA ..... GA
- LI MILLEDGEVILLE ..... GA
- NFK CLARKSON ..... KY
- IWZ PIKEVILLE ..... KY
- LFP PICAYUNE ..... MS
- JTX CHERRYVILLE ..... NC
- CVM RANDLEMAN/GBO ..... NC
- OXE INMAN ..... SC
- LWY SUMMERTON ..... SC
- RJC DECATUR-PONE KB ..... TN
- JXI MEMPHIS ..... TN
- MJF ALEXANDRIA ..... VA
- ARO PETERSBURG ..... VA
- HDB MARMET/BEE MT ..... WV
- FSE MARTINSBURG ..... WV

4.57 /5.17
- JBF COOLIDGE ..... GA
- DIW JONESBORO ..... GA
- PRH HALLS GAP ..... KY
- ZQB NEWTON/ANDSN MT ..... NC
- RVS OXFORD ..... NC
- TUN AIKEN ..... SC
- SK LOUDON ..... TN
- BRN MEMPHIS ..... TN
- LHO MURFREESBORO ..... TN
- YVM FAIRFAX ..... VA
- ZUA NORFOLK ..... VA
- FRV BECKLEY/BOLT ..... WV

4.59 /5.19
- ULJ PINE MT/HAMILTON ..... GA
- TEF BOONEVILLE ..... MS
- WGA JACKSONVILLE ..... NC
- BVW MT MITCHELL ..... NC
- OTT CARTHAGE ..... TN
- XX JASPER ..... TN
- FAX RICHMOND ..... VA
- YJJ RICHWOOD ..... WV
- JGY WHEELING ..... WV

4.61 /5.21
- PSZ FAYETTEVILLE ..... GA
- U DEANE ..... KY
- BOP ERLANGER ..... KY
- VOF COLUMBUS ..... MS
- WRE POPLARVILLE ..... MS
- TQD TRENTON ..... NC
- NEP GASTON ..... SC
- BBB KNOXVILLE ..... TN
- ARK NASHVILLE ..... TN
- MS KILMARNOCK ..... VA
- QOJ ROANOKE/POOR MT ... VA
- FEQ HUNTINGTON ..... WV

4.63 /5.23
- JEH CONYERS ..... GA
- UJ DALTON ..... GA
- COL WAYNESBORO ..... GA
- PRH LOUISVILLE ..... KY
- PRH OXFORD ..... KY
- BFB CHARLOTTE ..... NC
- RA LAVERNE ..... TN
- DBB BEDFD/APL ORCH ..... VA
- MT NEWPORT NEWS ..... VA

4.65 /5.25
- BLQ CLAYTON ..... GA
- YYD ELLIJAY-BUCK MTN ..... GA
- GGD GREENSBORO ..... NC
- URP CHARLESTON ..... SC
- BRV ERWIN ..... TN
- DRL FISHERVILLE ..... TN
- CZJ BEAVERDAM ..... VA
- VT MONTGOMERY ..... WV

4.67 /5.27
- PN WALESKA/PNLGMT ..... GA
- NBG HORNLAKE ..... MS
- DZJ WIGGINS ..... MS
- KNI HENDSVL/BERWLW M. NC
- BEA RALEIGH ..... NC
- O FRUITLAND ..... TN
- WZK HENDERSONVILLE ..... TN
- CJX SEV/SHIELDS MT ..... TN
- SKE MARION ..... VA
- J STAFFORD ..... VA
- OG CRAIGSVILLE ..... WV

4.69 /5.29
- DRQ ATLANTA ..... GA
- AGA FRANKFORT ..... KY
- PL LAWRENCEBURG ..... KY
- ICN PAINTSVILLE ..... KY
- L VICKSBURG ..... MS
- BFB CHARLOTTE ..... NC
- VCM CHATTANOOGA ..... TN
- SQC JOHNSON CITY ..... TN
- UVH NASHVILLE ..... TN
- NDH CHESAPEAKE ..... VA
- ZS MARTINSVILLE ..... VA
- ZXP GLENVILLE ..... WV

4.71 /5.31
- CEK COLUMBUS ..... GA
- JDR STOCKBRIDGE ..... GA
- GOJ CHATAWAH ..... MS
- ICX LEXINGTON ..... NC
- GY CHELSEA ..... SC
- PF ROCK HILL ..... SC
- PNI ATHENS ..... TN
- SC JACKSON ..... TN
- ECD LAFAYETTE ..... TN
- FSC ALEXANDRIA ..... VA
- G BECKLEY/LAYLAND ..... WV

4.73 /5.33
- OGE JONESBORO ..... GA
- YUU LEXINGTON ..... KY
- CYR GULFPORT ..... MS
- J MT. AIRY ..... NC
- DFP BAMBERG ..... SC
- DBJ CUMBERLAND CITY ..... TN
- TEM KNOXVILLE ..... TN
- DRL MEM/FISHERVILLE ..... TN
- QQI FARMVILLE ..... VA
- QC PARSONS ..... WV
- M WILLIAMSON ..... WV

4.75 /5.35
- DOC ATLANTA ..... GA
- FGQ ROSSVILLE ..... GA
- RBL LA GRANGE ..... KY
- WMH OLIVE BRANCH ..... MS
- AOS CHARLOTTE ..... NC
- GVK GREENVILLE ..... NC
- Y HUMBOLDT ..... TN
- AZJ BLAND ..... VA
- AQD FALLS CHURCH ..... VA
- OZT CHARLESTON ..... WV

4.77 /5.37
- UA AUGUSTA ..... GA
- IZF JASPER ..... GA
- NNX HATTIESBURG ..... MS
- PYQ SOUTHAVEN ..... MS
- AGN N. WILKESBORO ..... NC
- MII OXFORD ..... NC
- PPD SHALLOTTE ..... NC
- GRC KNOXVILLE ..... TN
- OG NASHVILLE ..... TN
- EE GLOUCESTER ..... VA
- FWL BECKLEY/EOC ..... WV

4.79 /5.39
- HYB GRIFFIN ..... GA
- NJ MONROE/UCARS ..... NC
- AM CHATTANOOGA ..... TN
- GZX EASTVIEW ..... TN
- EPC GREENEVILLE ..... TN
- DOR LEBANON ..... TN
- ARO ROANOKE/POOR MTN VA
- EOM WESTON ..... WV

4.81 /5.41
- PME ATLANTA/BELL ..... GA
- PXX BRNSWK/JEKYLL IS ..... GA
- NON COVINGTON ..... KY
- BKD GLASGOW ..... KY
- IF N.BILOXI/D'IBERV ..... MS
- XO HIGH POINT ..... NC
- KNU WILLIAMSTON ..... NC
- VIH DOVER ..... TN
- TUO GREENEVILLE ..... TN
- VIP MEMPHIS ..... TN
- FHE BUCKHANNON ..... WV
- HYX LIBERTY ..... WV

4.83 /5.43
- OLL MACON ..... GA
- LCI MARIETTA ..... GA
- ITL SPARTA/GREEN MT ..... NC
- LB COLUMBIA ..... SC
- YTU BROWNSVILLE ..... TN
- UCE COOKEVILLE ..... TN
- IUA KNOXVILLE ..... TN
- SQT RICHMOND ..... VA
- L CHARLESTON ..... WV
- LG MORGANTOWN ..... WV

4.85 /5.45
- BOC DECATUR ..... GA
- TX LEXINGTON ..... KY
- PLY CROWDERS MT/GAST. NC
- WTX DURHAM ..... NC
- GRWNEWPORT ..... NC
- SIR BENTON ..... TN
- KO HOHENWALD ..... TN
- KOG MEMPHIS ..... TN
- LP MORRISTOWN ..... TN
- E SPRING HILL ..... TN
- LGY GRANTSVILLE ..... WV
- SXZ WELCH ..... WV

4.87 /5.47
- UV HINESVILLE ..... GA
- CLA SWEAT MT/MARIETT ... GA
- WMM MAYSVILLE ..... KY
- OIX KINSTON ..... NC
- NC SAURATOWN MT ..... NC
- DDK MYRTLE BEACH ..... SC
- GBI KNOXVILLE ..... TN
- OMO MOUNTAIN CITY ..... TN
- ARK NASHVILLE ..... TN
- EFJ ARLINGTON ..... VA
- FG KINGSTON/LICK KB ..... WV

4.89 /5.49
- JA AUGUSTA ..... GA
- RWS CORDELE ..... GA
- QPL MARIETTA ..... GA
- PXK CLARKSON ..... KY
- CWF NICHOLASVILLE ..... KY
- ZCZ FRANKLIN ..... NC
- IKY GIBSONVILLE ..... NC
- BWC RALEIGH ..... NC
- ABW RKY RDG/WALLACE .... SC
- KKO MCMINVL/SHT MT ..... TN
- KOG MEMPHIS ..... TN
- MOP BLUEFIELD ..... VA
- OHX NEWPORT NEWS ..... VA
- MOP BLUEFIELD ..... WV
- F PARKERSBURG ..... WV

6.895/6.295
- RBS HARTWELL ..... GA

6.01 /6.61
- CVY COLUMBUS ..... GA
- JEH CONYERS ..... GA
- BDP WARNER ROBINS ..... GA
- KWV CORBIN ..... KY
- KKG LAUREL ..... MS
- SNI GREENSBORO ..... NC
- JMS NEW BERN ..... NC
- NYK GRNVLE/CSRS HD ..... SC
- CMY CHATTANOOGA ..... TN
- PCD NASHVILLE ..... TN
- LSP ABINGDN/BRMLY MT ... VA
- GSP CHESAPEAKE ..... VA
- WWQ LYNCHBURG ..... VA
- MZI GASSAWAY ..... WV

6.025/6.625
- UPE ATL/UNION CITY ..... GA
- JWP VIDALIA ..... GA
- WO PORT GIBSON ..... MS
- RR LAURINBURG ..... NC
- FJX CHESTER ..... SC
- GBI KNOXVILLE ..... TN
- ZQX MARTIN ..... TN
- AVW NEW MARKET ..... VA
- G FLAT TOP/WINTRPL ..... WV

6.035/6.635
- YCU BETSY LAYNE ..... KY

6.04 /6.64
- QGR ATLANTA ..... GA
- LWT AUGUSTA ..... GA
- FWD CARROLLTON ..... GA
- GBG WAYCROSS ..... GA
- UXJ CAMPBELLSVILLE ..... KY
- ITL JACKSON ..... MS
- NAY MOOREVILLE ..... MS
- YAO HENDERSONVILLE ..... NC
- DW RALEIGH ..... NC
- NC WINSTON-SALEM ..... NC
- FIQ SUMTER ..... SC
- QYI CRAB ORCHARD ..... TN
- NNE MEMPHIS ..... TN
- NTM NASHVILLE W ..... TN
- WIC FINCASTLE ..... VA
- IH MARION ..... VA
- QEY RICHMOND ..... VA
- EZR HUNTINGTON/CHAS ..... WV

6.055/6.655
- NFP ATLANTA/MARIETTA ..... GA
- MNI BOWLING GREEN ..... KY
- CEB CONCORD/KANNAP ..... NC
- VTX ELIZABETH CITY ..... NC
- ABU BROWNSVILLE ..... TN
- F CHATT/SIGNAL MT ..... TN
- PDP ALEXANDRIA ..... VA
- ISI ALTAVISTA ..... VA
- BUC UPPER TRACT ..... WV

6.06 /6.66
- BKM MACON ..... GA

6.07 /6.67
- NSO GAINESVILLE ..... GA
- EQL JESUP ..... GA
- VHF HAZARD ..... KY
- KBL PRINCETON ..... KY
- CAX BLUE MT. ..... MS
- YGD BURLINGTON ..... NC
- BKU CHERRY MT ..... NC
- SJ HALIFAX ..... NC
- U ST. MATTHEWS ..... SC
- DKI BRISTOL ..... TN
- BGW LAFOLLETTE/WMT ..... TN
- NTM NASHVILLE W ..... TN
- HZS BARREN SPRINGS ..... VA
- ZR LEXINGTON ..... VA
- NTG WILLIAMSBURG ..... VA
- JNU RAVENSWOOD ..... WV

6.085/6.685
- IWL ADAIRSVILLE ..... GA
- UWN FAYETTEVILLE ..... GA
- KQ LEWISPORT ..... KY
- KHB NATCHEZ ..... MS
- NBR GRIFTON ..... NC
- QP STATESVILLE ..... NC
- CO NEWBERRY ..... SC
- PIO LENOIR CITY ..... TN
- HTA VIENNA ..... VA
- FMD CLARKSBURG ..... WV

6.10 /6.70
- MM ALBANY ..... GA
- OOM JASPER ..... GA
- DOJ MILLEDGEVILLE ..... GA
- TO SAVANNAH ..... GA

	JO GRAYSON	KY	
	BDC LOUISVILLE	KY	
	YGM UNION CITY (TN)	KY	
	GY BAY ST. LOUIS	MS	
	LVA GRENADA	MS	
	DEJ MERIDIAN	MS	
	CID DUNN	NC	
	PAX LANCASTER	SC	
	KIE KNOXVILLE	TN	
	UOT MANCHESTER	TN	
	UFT MEMPHIS	TN	
	YGM UNION CITY	TN	
	WQS DANVILLE/WHT OAK	VA	
	D NORFOLK	VA	
	LQC PENNINGTON GAP	VA	
	XD STAUNTON	VA	
	JNU RAVENSWOOD	WV	
6.115/6.715	NVG LAVONIA	GA	
	ABZ RINGGOLD	GA	
	B BEREA	KY	
	TQY GREENWOOD	MS	
	GGN MILLERS CREEK	NC	
	KDC SPRING LAKE	NC	
	NEP COLUMBIA	SC	
	I BLACKSBURG	VA	
	TXE STERLING	VA	
	GL SHERRARD	WV	
6.13 /6.73	MM ALBANY	GA	
	NC ATLANTA/SWEAT MT	GA	
	TVE BRUNSWICK	GA	
	SWF LOUISA	KY	
	ZXK VERSAILLES	KY	
	IF BILOXI	MS	
	VZF STARKVILLE	MS	
	BWC RALEIGH	NC	
	EXU SALISBURY	NC	
	VNK WILMINGTON	NC	
	FKJ N. AUGUSTA	SC	
	BJY SIMPSONVILLE	SC	
	IOB KNXVL/ENG MT	TN	
	DAZ MEMPHIS	TN	
	WA WATERTOWN	TN	
	DHO HAMPTON	VA	
	AVZ ALDERSON	WV	
6.145/6.745	BKF ATHENS	GA	
	N DILLON/PEE DEE	SC	
	UP COALFIELD	TN	
	RCK DYERSBURG	TN	
	DY ROANOKE/POOR MT	VA	
	FMD ELK GARDEN	WV	
	U PARKERSBURG	WV	
6.16 /6.76	BOC STONE MT	GA	
	ELN VALDOSTA	GA	
	NSY FERN CREEK	KY	
	KJQ LEXINGTON	KY	
	CUW PADUCAH	KY	
	AXQ JACKSON	MS	
	BVW ASHVL/MT PISGAH	NC	
	GGD GREENSBORO	NC	
	S SWANSBORO	NC	
	THL WILSON	NC	
	ILT CHARLESTON	SC	
	LSP BRISTOL/HLSTN MT	TN	
	POP NASHVILLE	TN	
	TFZ CHARLOTTESVILLE	VA	
	ZIN WILLIAMSBURG	VA	
	VA HUNTINGTON	WV	
	CUL MORGANTOWN	WV	
	ZQ WHEELING	WV	
6.175/6.775	KE MARIETTA	GA	
	OCB WRENS	GA	
	PPM MIDDLESBORO	KY	
	JYH LONG BEACH	NC	
	JVO PULASKI/MUSIC MT	TN	
	MUQ WYTHEVILLE	VA	
	BWZ ELKINS	WV	
6.19 /6.79	DMK FOLKSTON	GA	
	KOW MOULTRIE	GA	
	SEX NEWNAN	GA	
	VYX SWAINSBORO	GA	
	U PAINTSVILLE	KY	
	TYP BILOXI	MS	
	S WEST POINT	MS	
	LZD CLINTON	NC	
	QDK SAURATOWN MT	NC	
	FVV ANDERSON/SAS MT	SC	
	ILT CHARLESTON	SC	
	AM CHATTANOOGA	TN	
	ABR JOHNSON CITY	TN	
	SQE NASHVILLE	TN	
	SD CHESAPEAKE	VA	
	LBL FAIRFAX	VA	
	OQC OAK HILL	WV	
6.205/6.805	LT MILLEDGEVILLE	GA	
	NNE GUTHRIE	KY	
	EWG FAYETTEVILLE	NC	
	IZF GASTONIA	NC	
	FYC ORANGEBURG	SC	
	NNE GUTHRIE (TN/KY)	TN	
	HTI COVINGTON	VA	
7.405/6.805	AQS CALHOUN/JASPER	GA	
	HCY MAGGIE VALLEY	NC	
6.22 /6.82	MM ALBANY	GA	
	DOC ATLANTA	GA	
	HAO LYONS	GA	
	MBA GREENVILLE	MS	
	MZ MAGEE	MS	
	PZA ROARING GAP	NC	
	GMP WILMINGTON	NC	
	NYK GRNVLE/PARIS MT	SC	
	E GREENBRIER	TN	
	OAH LAKE CITY	TN	
	BS MEMPHIS	TN	
	SFF WINCHESTER	TN	
	WWB GATE CITY	VA	
	RKC WINCHESTER	VA	
	IFS CHARLESTON	WV	
6.235/6.835	OCB THOMPSON	GA	
	QCO ASHEVILLE	NC	
	UOR NAGS HEAD/BODIE	NC	
	USH WADESBORO	NC	
	IDG WATERTOWN	TN	
	DCX GRUNDY/BIG A MT	VA	
	UTN LEESVILLE	VA	
7.435/6.835	KHQ DAHLONEGA	GA	
	BPV HIGH POINT	NC	
6.25 /6.85	DVJ DALLAS	GA	
	R LAGRANGE	GA	
	QWI WARNER ROBINS	GA	
	CLL BOWLING GREEN	KY	
	IV PIKEVILLE	KY	
	VNO BAY ST. LOUIS	MS	
	JMD BUDE	MS	
	BWW CLEVELAND	MS	
	MFK IUKA	MS	
	LWC KOSCIUSKO	MS	
	CYP GOLDSBORO	NC	
	MDW HICKORY/BRT. MT	NC	
	YFT REIDSVILLE	NC	
	ULH Fflorence	SC	
	KJH GTLBG/COVE MTN	TN	
	KOG MEMPHIS	TN	
	PCD NASHVILLE	TN	
	POX PORTSMOUTH	VA	
	ZBP STAUNTON	VA	
	BO BECKLEY/FLAT TOP	WV	
	L BUCKHANNON	WV	
6.265/6.865	DKY MADISON	GA	
	YF BIG KNOB/GREY CT	SC	
	G FAYETTEVILLE	TN	
	KP TRENTON	TN	
7.465/6.865	DWU ELLISVILLE	MS	
	ZRS WAXHAW	NC	
	E MOUNTAIN LAKE	VA	
6.28 /6.88	TOM COLUMBUS	GA	
	TDL EVANS	GA	
	IUD MARIETTA	GA	
	FGH QUITMAN	GA	
	HBB SAVANNAH	GA	
	OAU LOUISVILLE	KY	
	U MAYTOWN	KY	
	AI SOMERSET	KY	
	II JACKSON	MS	
	AAY PASCAGOULA	MS	
	TQD RALEIGH	NC	
	NYR SHELBY	NC	
	CYZ BRISTOL	TN	
	ETE MEMPHIS	TN	
	TOA NASHVILLE	TN	
	SKH OAK RIDGE	TN	
	CYZ BRISTOL	VA	
	ZBE RICHMOND	VA	
	PDL SALEM	VA	
	CQV SO. CHARLESTON	WV	
6.295/6.895	SM MACON	GA	
	JBV INDEPENDENCE	KY	
	YFF MADISON	NC	
	RAG STANARDSVILLE	VA	
	KXV VIRGINIA BEACH	VA	
6.30 /6.90	WVH IRVINGTON	KY	
	SP FAIRMONT	WV	
6.31 /6.91	HIG CLEVELAND/LONG	GA	
	HYB GRIFFIN	GA	
	GFY MOREHEAD	KY	
	VV HERNANDO	MS	
	OCM NATCHEZ	MS	
	ZGQ AHOSKIE	NC	
	MOE ASHVL/SPIVEY MT	NC	
	YZF FAYVLLE/CFARS	NC	
	IZM LEXINGTON	NC	
	BWZ WHITE HALL	SC	
	GZX CLEVELAND	TN	
	DQU SAVANNAH	TN	
	YXA SHORT MTN	TN	
	AXH CHASE CITY	VA	
	TUE MT.LAKE/BALD KNB	VA	
	HLF TYSONS CORNER	VA	
	FQN MCMECHEN	WV	
6.325/6.925	ASI COVINGTON	GA	
	PJR JESUP	GA	
	BEJ RADCLIFF	KY	
	VOJ CORINTH	MS	
	TFZ CHARLOTTESVILLE	VA	
	GJG DANVILLE(DCC)	VA	
	OGY PRINCETON/PIPEST	WV	
6.34 /6.94	N AUGUSTA	GA	
	VO ROME/MT. ALTO	GA	
	RVB WRIGHTSVILLE	GA	
	SN ASHLAND	KY	
	WZH GLASGOW	KY	
	AUZ LEXINGTON	KY	
	NTB MURRAY	KY	
	AI SOMERSET	KY	
	SBK JACKSON	MS	
	JMD MCCOMB	MS	
	DLH BURGAW	NC	
	BFB CHARLOTTE	NC	
	BFT DURHAM	NC	
	ACY MANTEO/WANCHESE	NC	
	XRY MT AIRY	NC	
	IQQ GREENVILLE	SC	
	GBI KNOXVILLE	TN	
	BN MEMPHIS	TN	
	PCD NASHVILLE	TN	
	AKZ ABINGDON	VA	
	UMI HAMPTON	VA	
	ZA RICHMOND	VA	
	AP ROANOKE	VA	
	VKB SUMMERSVILLE	WV	
	JN WEIRTON	WV	
7.54 /6.94	CSW NEW MARTINSVLLE	WV	
6.355/6.955	KIN PERRY	GA	
	PRE ROCKY TOP MT	GA	
	OCP RABBIT HASH	KY	
	NS RINEYVILLE	KY	
	ULA ROCKINGHAM	NC	
	E ONEIDA PEAK/BLF	VA	
6.37 /6.97	YNZ ATLANTA	GA	
	HBB SAVANNAH	GA	
	DPP HENDERSON	KY	
	MJM MERIDIAN	MS	
	KYB PASCAGOULA	MS	
	DHS WINONA	MS	
	XRY MT AIRY	NC	
	JQ SMITHFIELD	NC	
	SZ ANDERSON	SC	
	ISM FLORENCE	SC	
	TRC KNGSPT/BAYS MT	TN	
	MWQ MCMINNVILLE	TN	
	BEZ MEDINA	TN	
	SKH OAK RIDGE	TN	
	FPM MANASSAS	VA	
	WRN MIDDLEBROOK	VA	
	KXV VIRGINIA BEACH	VA	
	E LOGAN/WARD RK MT	WV	
	CRW PARKERSBURG	WV	
6.38 /6.98	BEJ ELIZABETHTOWN	KY	
6.385/6.985	I AUGUSTA	GA	
	HHH ELLIJAY/TALONA M	GA	
	TOV PRESTON	GA	
	UUB ST. MARYS	GA	
	UER WARM SPRINGS	GA	
	DMT SENATOBIA	MS	
	OGB ALBEMARLE	NC	
	PVE MARION	NC	
	ESG MT PLEASANT	SC	
	IY FRANKLIN	TN	
	CA ROANOKE/POOR MT	VA	
	EIV CHARLES TOWN	WV	
6.40 /7.00	NNO ATLANTA	GA	
	UFH CORINTH	MS	
	QFX WATER VALLEY	MS	
	FVO JACKSONVILLE	NC	
	AZA THOMASVILLE	NC	
	YLT MARION	SC	
	YXZ PICKENS	SC	
	AZQ KNOXVILLE	TN	
	ZJM MEMPHIS	TN	
	HMT SUFFOLK/GASBURG	VA	
	GDY ST ALBANS	WV	
7.60 /7.00	WAU ELKHORN CITY	KY	
	LR SHELBYVILLE	KY	
	VOF COLUMBUS	MS	
	KMG BLOUNTVILLE	TN	
	ZOK CHATT/SIGNAL MT	TN	
	SGA CLARKSVILLE	TN	
	ZR TERRA ALTA	WV	
6.415/7.015	GIS CARTERSVILLE	GA	
	M LYNCHBURG	VA	
	AXO NORTON/HIGH KNOB	VA	
7.615/7.015	DT BONAIRE	GA	
	FOW CLEVELAND/LONG	GA	
	UM MIDWAY	GA	
	FDK LEXINGTON	KY	
	JHK MONTICELLO	MS	
	KPF LK NORMN/CLT	NC	
	YP SELMA	NC	
	UMU SUMTER	SC	
	JVV LEBANON	TN	
	KS ROCKWOOD	TN	
	YGM UNION CITY	TN	
	LNT FREDRICKSBURG	VA	
6.43 /7.03	D LAUREL	MS	
	YTZ ROCK HILL	SC	
	MVR LEXINGTON	TN	
	JST RICHMOND	VA	
7.63 /7.03	REI ATLANTA/AIRPORT	GA	
	ZVL HOPKINSVILLE	KY	
	PJZ LOUISVILLE	KY	
	A OWENSBORO	KY	
	LDD OCEAN SPRINGS	MS	
	GG GREENSBORO	NC	
	DTS ROANOKE RAPIDS	NC	
	FOF BARNWELL	SC	
	HOG N. MYRTLE BEACH	SC	
	YGI COLLIERVILLE	TN	
	NIQ FAYETTEVILLE	TN	
	PRQ MORRISTOWN	TN	
	BLD WAYNESBORO	VA	
	IT MULLINS/HRNDN MT	WV	
	ECC ST MARYS/BENS R	WV	
6.445/7.045	CNS ANDREWS/ROBBINSV	NC	
	FLR FAYETTEVILLE	NC	
7.645/7.045	TYM METTER	GA	
	NFA WATKINSVILLE	GA	
	VF GRETHEL	KY	
	JRL STATSVL/ASBRY MT	NC	
	HKZ COOKEVILLE	TN	
	AYN NASHVILLE	TN	
	RAG STAUNTON/EL KB	VA	
	SBC VIRGINIA BEACH	VA	
6.46 /7.06	CQ CHARLOTTE	NC	
	LBM ALTON	VA	
	PNC PRINCETON	WV	
7.66 /7.06	DDI MACON	GA	
	CLA ROSWELL	GA	
	UCJ THOMASVILLE	GA	
	WQ PADUCAH	KY	
	K HATTIESBURG	MS	
	LED MACO	NC	
	VFR SUMTER/SHAW	SC	
	UG GRNVLE/VIKING MT	TN	
	MQQ MEMPHIS	TN	
	QEB SHELBYVILLE	TN	
	ECM ENON	VA	
	KNM POINT PLEASANT	WV	
7.67 /7.07	NMC LOUISVILLE	KY	
6.475/7.075	GBS MORGANTON	GA	
	WRP GIBSONVILLE	NC	
7.675/7.075	JXR LAWRENCEVILLE	GA	
	TLP OWINGSVILLE	KY	
	Y JACKSON	MS	
	HBQ BURLINGTON	NC	
	L NEWTON	NC	
	E GREENBRIER	TN	
	GBI KNOXVILLE	TN	
	O MCNAIRY	TN	
	PNT WAYNESBORO	VA	
	QC MORGANTOWN	WV	
7.69 /7.09	CVE ST SIMONS ISL	GA	
	ZAC HARLAN	KY	
	YK PHELPS	KY	
	DSN AMORY	MS	
	MRS NEW HEBRON	MS	
	GDF GREENVL/ESTN NC	NC	
	RP ORANGEBURG	SC	
	JLA SPARTANBURG	SC	
	ATI GERMANTOWN	TN	
	NLP JAMESTOWN	TN	
	VL GALAX/BRIRP MT	VA	
7.705/7.105	YSB ATLANTA	GA	
	D STATESBORO	GA	
	FGA MARION	KY	
	HXG WAYNESBORO	MS	
	JCK MONROE	NC	
	GHH MOUNTAIN HOME	NC	
	TC HENDERSON	TN	
	JBJ BEDFORD	VA	
	JTH MT STORM	WV	
	Z SPENCER	WV	
6.09 /7.11	ZLR LOGAN	WV	
7.72 /7.12	MM ALBANY	GA	
	S AUGUSTA	GA	
	CMA CEDARTOWN	GA	
	U BENTON	KY	
	ASZ WINCHESTER	KY	
	N ACKERMAN	MS	
	REW GAST/SPCR MT	NC	
	V GIBSONVILLE	NC	
	EWL ROCKY MOUNT	NC	
	JMT MYRTLE BEACH	SC	
	ZYX COLUMBIA	TN	
	GMV MEMPHIS	TN	
	EAJ OAK RIDGE	TN	
	FAF CULPEPER	VA	
	DKM BRIDGEPORT	WV	
7.735/7.135	BZJ DALTON	GA	
	FRM MILLEDGEVILLE	GA	
	Y VALDOSTA	GA	
	LRQ PETAL	MS	
	CJS BREVARD/RICH MTN	NC	
	ABW CHERAW	SC	
	EDS ALAMO	TN	
	AZJ PEARISBURG	VA	
	HB RICHMOND	VA	
7.75 /7.15	TFW ALBANY	GA	
	BYK CUMMING/SAWNEE	GA	
	III PEARL	MS	
	VLY MORGANTON	NC	
	TQD RALEIGH	NC	
	BJM MONCKS CORNER	SC	
	SDT SIMPSONVILLE	SC	
	PCD NASHVILLE	TN	
	EAJ OAK RIDGE	TN	
	QJZ JEWELL RIDGE	VA	
	SVR ST ALBANS	WV	
7.765/7.165	KIN FORSYTH	GA	
	HBM LEXINGTON	KY	
	UBY PRESTONSBURG	KY	
	RIS HIGH POINT	NC	
	VIA GREENWOOD	NC	
	CEX PURYEAR	TN	
	CTF NEWPORT NEWS	VA	
	FJT WARRENTON	VA	
7.78 /7.18	BMA AUGUSTA	GA	
	NHW BALDWIN	GA	
	BI SYCAMORE	GA	
	H BAXTER	KY	

RBI DIXON KY
CN LOUISVILLE KY
UDQ INVERNESS MS
EJJ SANFORD NC
SFK TRYON/MELROSE MT.. NC
CTJ WILMINGTON NC
NAT DORCHESTER SC
SC FT MILL/CAROWND SC
KOG MEMPHIS TN
PCD NASHVILLE TN
DES POLK CTY/OSWALD TN
Z PKS KB/PULASKI VA
NMT LEON WV
7.795/7.195 B ATLANTA GA
UCJ BOSTON GA
NIN LENOIR NC
WB MURPHY NC
RTS LYNCHBURG VA
H HORSEPEN MT WV
7.81 /7.21 TF CONYERS GA
TO SAVANNAH GA
BUZ GREENSBORO NC
MSD WHITEVILLE NC
AVU LITTLE MT SC
WS COOKEVILLE TN
SBX GRAY/HOLSTON MT TN
WKZ JACKSON TN
IWG MCLEAN VA
TC CHARLESTON WV
7.825/7.225 ZUN JEFFERSON GA
LVY SUMMERVILLE GA
NFK LITCHFIELD KY
UQS ASHEVILLE NC
WTX HILLSBOROUGH NC
DTW SANTEE SC
OAH MORRISTOWN TN
C HARRISONBURG VA
NRK PRINCETON WV
7.84 /7.24 NFG IRWINTON GA
DII ASHLAND KY
AVE FAIR DEALING KY
AI FRANKFORT KY
NAR MAYFIELD KY
R TUPELO MS
NIW CARTHAGE NC
ACP EDEN NC
PBG FOREST CITY NC
GHZ FRANKLIN NC
ILN HILTON HEAD SC
AC LANCASTER SC
BKY GALLATIN TN
OG LUNENBURG CT.HSE VA
FQR WOODBRIDGE VA
7.855/7.255 KDT ATLANTA GA
CO HIGHLAND HEIGHTS KY
AV ASHEBORO NC
KNI HENDSVL/PENIC/MT NC
BZU NASHVILLE TN
SI PETROS/FRZ HD MT TN
TVS ACCOMAC VA
CYZ DANTE VA
VAZ MARTINSBURG WV
7.87 /7.27 EBB AMERICUS GA
KWT LOUISVILLE KY
GEL PIKEVILLE KY
USN ABERDEEN MS
SXK VICKSBURG MS
H BENSON NC
SM WAYNESVILLE NC
LET CHARLESTON SC
JRJ SENECA/LONG MT SC
YQC GALLATIN TN
FH JOHNSON CITY TN
OWI MEMPHIS TN
TMC PINSON TN
IKL GUM SPRING VA
S SCOTT DEPOT WV
7.885/7.285 EVD ASHBURN GA
VBX ATLANTA/GPCO GA
FGA MARION KY
EZN COLUMBIA MS
ADM AIKEN SC
DCD MYB BCH/BRKSVIL SC
MGM WHITE OAK MTN SC
PUX PIKEVILLE TN
ZS MARTINSVILLE VA
HON SPRUCE KNOB WV
7.90 /7.30 ACY PERRY GA
YSV ROME GA
U SALYERSVILLE KY
SJH SPRINGFIELD KY
LNY MAGEE MS
YJG JEFFERSON NC
MZP RED SPRINGS NC
OMV TUCKASEGEE NC
ESG MT. PLEASANT SC
BBB KNOXVILLE TN
ADT MEMPHIS TN
ZSA NASHVILLE TN
SPS FRANKLIN VA
ZR LEXINGTON VA
TSC WINCH/BLUEMONT VA
NSL HARRISVL/PENSBRO WV
7.915/7.315 REB TWIN CITY GA
IL SALEM KY
PPD SHALLOTTE NC
JYH WALKERTOWN NC

UZT N. SPARTANBURG SC
HFH ALEXANDRIA VA
SAD HARRISONBURG VA
MR CLARKSBURG WV
7.92 /7.32 HWQ GRUNDY VA
7.93 /7.33 BXO LAGRANGE GA
DIP TOCCOA GA
KWH ASHLAND KY
KNE MT. STERLING KY
IUI PROVIDENCE KY
EPP PHILADELPHIA MS
LPL FAYVLLE/FT BRAGG NC
K LENOIR/HIBRITN NC
NUY COLUMBIA SC
VXW COVINGTON TN
WYI ROCKWOOD TN
ZR LEXNGTN/ROCK MT. VA
ZIP WARSAW VA
7.945/7.345 NEQ ATLANTA/MARIETTA GA
PJR JESUP/SCREVEN GA
IZD LYNCH/BLACK MT KY
JC CLINTON MS
NYR SHELBY NC
TEP WASHINGTON NC
DRU AWENDAW SC
WF HENDERSONVILLE TN
SJM GLADYS VA
RUA FRANKLIN WV
K LOGAN/SUMERCO WV
7.96 /7.36 CLC DOUGLASVILLE GA
HZX DUBLIN GA
Z LOUISVILLE KY
CJR HATTIESBURG MS
KCG LOUISVILLE MS
SVC NATCHEZ MS
KDB BOONE/RICH MTN NC
LDB DURHAM NC
Z LUMBERTON NC
EOY COLUMBIA SC
OAK LAFOLLETTE TN
MMI MEMPHIS TN
NTM NASHVILLE TN
KLX PARIS TN
MMI POCAHONTAS TN
CBB CHESTERFIELD VA
OLM STUARTS DRAFT VA
F PARKERSBURG WV
7.975/7.375 TQU ATHENS/CRAWFORD GA
VAK LAFAYETTE GA
CO WALTON KY
VFU GULFPORT MS
YN BURNSVILLE NC
ROK GREENVILLE NC
DCD TABOR CITY NC
DMI GEORGETOWN SC
LEO GREENVILLE SC
ILD LYNCHBURG VA
NV VIRGINIA BEACH VA
LNB GRAFTON WV
WMXST ALBANS WV
7.98 /7.38 NAY PONTOTOC MS
7.99 /7.39 IMK THOMASTON GA
NON COVINGTON KY
RBL LA GRANGE KY
PDJ WHTSBRG/PINE MT KY
UNA PRENTISS MS
CHZ AQUADALE NC
PLY CHARLOTTE NC
QBG EDEN/STONEVILLE NC
FAU SHALLOTTE NC
AC SMITHFIELD NC
FEC LEXINGTON SC
TA CLARKSVILLE TN
ZLA DAYTON/RHEA CTY TN
BJY OAKFIELD TN
OBW SULPHUR SPRINGS TN
AJO MADISON VA
ARO PETERSBURG VA
CRW PARKERSBURG WV
6.19 /7.51 HBY MEMPHIS TN
7.075/7.675 NGQ FRANKFORT KY
7.315/7.915 SPJ FORSYTH GA

220 MHZ

0.058/EACON NKM GREENEVILLE TN
3.94 /2.34 DBB BEDFD/APL ORCH VA
2.12 /3.72 KHP STERLING PARK VA
2.14 /3.74 VMI LEXINGTON KY
2.30 /3.90 NSO GAINESVILLE GA
RAB HERMITAGE TN
2.32 /3.92 AZA THOMASVILLE NC
2.34 /3.94 UPC YORKVILLE GA
QK ASHLAND KY
BVW ASHVL/MT PISGAH NC
WTX HILLSBOROUGH NC
GP CLARKSVILLE TN
ZJM MEMPHIS TN
HTA VIENNA VA
2.38 /3.98 ELN VALDOSTA GA
HUV LINWOOD NC
ZSA GALLATIN TN
2.40 /4.00 HQ DELTAVILLE VA
2.42 /4.02 GLC BRUNSWICK GA
JEH CONYERS GA
EHF FAYETTEVILLE NC
TXE LEESBURG VA

2.44 /4.04 BZJ DALTON GA
2.46 /4.06 UPC YORKVILLE GA
MB ARLINGTON VA
G FLAT TOP/WINTRPL WV
2.48 /4.08 GIS CARTERSVILLE GA
NTM NASHVILLE TN
2.50 /4.10 F CORNELIA GA
CII RIDGEVILLE SC
YHD FAIRFAX VA
DBB ROANOKE VA
2.52 /4.12 NFP ATLANTA/MARIETTA GA
FEC LITTLE MT SC
2.54 /4.14 WOR GREENSBORO NC
QHF PICKENS/CSRS HD SC
SGS FRANKLIN TN
M WILLIAMSON WV
2.56 /4.16 JNN SASAFRAS MTN GA
K LENOIR/HIBRITN NC
MC NASHVILLE TN
2.58 /4.18 YDX DALLAS GA
NRL CHARLESTON SC
DAS VIRGINIA BEACH VA
2.60 /4.20 UA AUGUSTA GA
ILY GREER SC
KMG BLOUNTVILLE TN
YTU BROWNSVILLE TN
PEA HAMPDEN-SYDNEY VA
2.62 /4.22 ZXK VERSAILLES KY
ACP MAYODAN MT NC
C ROCKY MOUNT NC
FZK KNXVL/CROSS MT TN
EHB SPRINGFIELD TN
2.64 /4.24 YYD ELLIJAY-BUCK MTN GA
KNI HENDSVL/BERWLW M. NC
2.66 /4.26 NP SHORT MTN. TN
2.68 /4.28 BLR ATLANTA GA
OAK LAFOLLETTE TN
M LYNCHBURG VA
2.70 /4.30 MKT LOUISVILLE KY
PVI STATESVILLE NC
2.72 /4.32 JBF THOMASVILLE GA
KYB PASCAGOULA MS
N PICKENS/SASFR MT SC
US CLEVELAND TN
2.74 /4.34 DOC ATLANTA GA
2.76 /4.36 TYO MARSHALL NC
YST CHARLESTON WV
2.78 /4.38 RBT CLEVELAND GA
GJG DANVILLE VA
2.80 /4.40 TF CONYERS GA
DWU ELLISVILLE MS
BFB CHARLOTTE NC
QHF PICKENS SC
YGI COLLIERVILLE TN
2.82 /4.42 YSV ROME GA
VEZ LOUISVILLE KY
BS MEMPHIS TN
KHP FAIRFAX VA
NDQ NORTON/HIGH KB VA
2.84 /4.44 NEQ ATL/MARIETTA GA
G WEST SPRINGS SC
OG NASHVILLE TN
GLA DANVLE/WHITE OAK VA
2.86 /4.46 YON KNOXVILLE TN
FUJ LOVETTSVILLE VA
2.88 /4.48 PRH NORCROSS GA
ZIA LOCUST NC
QC PARSONS WV
2.90 /4.50 TYP BILOXI MS
YNY WILMINGTON NC
BBB KNOXVILLE TN
DRL MEM/FISHERVILLE TN
BVI MARTINSVILLE VA
2.92 /4.52 KSM WALESKA/PNLGMT GA
3.92 /4.52 RPB GLEN MS
2.94 /4.54 BVW MT MITCHELL NC
2.96 /4.56 DOC ATL/CHESTNUT MT GA
2.98 /4.58 F PIKEVILLE KY
YHH SAURATOWN MT NC
VFD CROSS SC
3.00 /4.60 N ASHEVILLE NC
NNR HIGH POINT NC
HMT GASBURG/LK GASTN VA
3.02 /4.62 ZTL ATLANTA/BELL GA
ETG PIKEVILLE KY
BLQ ARK VA
3.04 /4.64 ABZ RINGGOLD GA
PEN RALEIGH NC
YHH WINSTON-SALEM NC
RWN COLUMBIA SC
3.06 /4.66 BKM MACON GA
PLA MARS HILL NC
MC NASHVILLE TN
FPM MANASSAS VA
3.08 /4.68 BZJ DALTON GA
KPF LK NORMN/CLT NC
3.10 /4.70 GY BAY ST. LOUIS MS
RXG SAURATOWN MT NC
ARO PETERSBURG VA
3.12 /4.72 MBK CLAYTON GA
MSK MT. TOXAWAY NC
KO COLUMBIA TN
KHP TYSONS CORNER VA
3.14 /4.74 KVC DALTON GA
TFU BURNSVILLE NC
PYI NASHVILLE TN
WQJ VIRGINIA BEACH VA

FG KINGSTON/LICK KB W
3.16 /4.76 BOC STONE MT G
EXU SALISBURY N
E GREENBRIER T
3.18 /4.78 D ACKERMAN M
WGY EDEN N
VCM CHATTANOOGA T
UCI JC/BUFFALO MT T
KOG MEMPHIS T
GJZ WOODBRIDGE V
3.20 /4.80 PML MORGANTON N
3.22 /4.82 C ATLANTA G
MOP LOUISVILLE K
D ACKERMAN M
DWU CANTON N
HTS GREENSBORO N
CCF ALEXANDRIA V
3.24 /4.84 ACY PERRY G
DAN GRIFTON N
PLV BEDFORD V
3.26 /4.86 JNN ALPHARETTA G
TGK ORANGEBURG S
OBW SULPHUR SPRINGS T
UHA HAMPTON V
3.28 /4.88 UPC YORKVILLE G
VNO BAY ST. LOUIS M
RXG SAURATOWN MT N
DRL FISHERVILLE T
4.28 /4.88 AIH ANDREWS/ROBBINSV N
3.30 /4.90 QPL MARIETTA G
ST PONTOTOC M
EOY COLUMBIA S
ZOK CHATT/SIGNAL MT T
3.32 /4.92 NYK PARIS MT/GRNVL S
3.34 /4.94 KXO AUGUSTA G
UPC PINE LOG MT G
EV ROSSVILLE G
YUU LEXINGTON K
JJ FLORENCE S
NKM GREENEVILLE T
DBB ROANOKE/POOR MTN V
3.36 /4.96 ZJG HIRAM G
UDS CHERRYVILLE N
JVX GOLDSBORO N
WTB SAURATOWN MT N
TUN AIKEN S
OLM STUARTS DRAFT V
3.38 /4.98 JSR CUMMING G
CHP FALLS CHURCH V

440 MHZ

9.45 /5.67 DOC ATLANTA GA
9.25 /1.25 PXX BRNSWK/JEKYLL IS GA
AZA SAURATOWN MT NC
GUP LEXINGTON SC
ERU MEMPHIS TN
ZQ NASHVILLE TN
O MOUNDSVILLE WV
9.250/1.250 TPI PULASKI TN
9.25 /3.25 UMU SUMTER SC
VHP SAVANNAH GA
GVK ALEXANDRIA VA
WIN NORFOLK VA
NOJ WAYNESBORO VA
MM ALBANY GA
AOH OWENSBORO KY
NYR SHELBY NC
1.25 /9.25 ERU MEMPHIS TN
6.25 /9.25 FHL ROANOKE/POOR MT VA
7.00 /2.00 RTH ALPHARETTA GA
ORL LOUISVILLE KY
HMT GASBURG VA
IQV MARION VA
CSG WINCHESTER VA
7.025/2.025 JA AUGUSTA GA
7.05 /2.05 XV JASPER TN
BEZ MEDINA TN
7.10 /2.10 ACP MAYODAN NC
ABJ MILAN TN
7.125/2.125 PLP ROSSVILLE GA
7.15 /2.15 BEA RALEIGH NC
J CHATTANOOGA TN
7.150/2.150 TPI PULASKI TN
7.175/2.175 EO ROCKY FACE GA
YUY ROANOKE VA
7.20 /2.20 APR DECATUR GA
SBX GRAY/HOLSTON MT TN
BJY OAKFIELD TN
TXE STERLING VA
QC PARSONS WV
7.225/2.225 KWT LOUISVILLE KY
7.25 /2.25 IS GREENVILLE SC
DES OSWALD DOME TN
HTI COVINGTON VA
7.275/2.275 VTT MACON GA
7.30 /2.30 VFD CROSS SC
7.325/2.325 JSR CHATTANOOGA TN
7.40 /2.40 FE WARM SPRINGS GA
XV LATONIA KY
QHF PICKENS/CSRS HD SC
YI LYNCHBG/JACK MT VA
7.45 /2.45 LMR RALEIGH NC
7.475/2.475 NVG LAVONIA GA
7.50 /2.50 MLF LOUISVILLE KY
NTZ KNOXVILLE TN
CA ROANOKE/POOR MT VA

7.500/2.500	YNY	WILMINGTON	NC
7.55 /2.55	JEH	CONYERS	GA
	MMY	PITTSBORO	NC
7.625/2.625	NSO	GAINESVILLE	GA
	EPG	MEMPHIS	TN
7.675/2.675	UP	ETHRIDGE	TN
7.70 /2.70	HHH	ELLIJAY	GA
	AZU	SAVANNAH	GA
	VG	ROANOKE/POOR MT.	VA
7.80 /2.80	NFP	ATL/MARIETTA	GA
	EPG	JACKSON	TN
7.825/2.825	G	MEMPHIS	TN
7.90 /2.90	AZA	THOMASVILLE	NC
7.95 /2.95	FU	LYNCHBURG	VA
7.975/2.975	YNZ	ATLANTA	GA
8.00 /3.00	OGF	CHATSWORTH	GA
	EOY	COLUMBIA	SC
	ZJM	MEMPHIS	TN
	VL	GALAX/PT LOOKOUT	VA
	EZR	HUNTINGTON	WV
8.05 /3.05	JVX	GOLDSBORO	NC
	PUB	MT JULIET	TN
8.10 /3.10	IZD	LYNCH/BLACK MT	KY
	GGC	SAURATOWN MT	NC
	N	GRNVLE/PARIS MT	SC
	GPM	FAYETTEVILLE	TN
	JXT	MEMPHIS	TN
	FHE	BUCKHANNON	WV
8.15 /3.15	MHR	ST. ALBANS	WV
8.20 /3.20	CLA	SWEAT MT	GA
	UG	GRNVLE/VIKING MT	TN
	BS	MEMPHIS	TN
8.25 /3.25	HTA	VIENNA	VA
8.275/3.275	KLW	ROCKMART	GA
8.30 /3.30	X	ATHENS	GA
	SSB	GALLATIN	TN
	KJH	GATLBG/COVE MT	TN
	KQI	STUART/SPOON MTN.	VA
8.325/3.325	JMD	STOCKBRIDGE	GA
	JMD	STOCKBRIDGE	GA
8.35 /3.35	YYD	ELLIJAY-BUCK MTN	GA
	LFU	RICHMOND	VA
8.375/3.375	AQS	CALHOUN/JASPER	GA
8.40 /3.40	RDM	HAMPTON	GA
	WTB	SAURATOWN MT	NC
	TUN	AIKEN	SC
	DBJ	CUMBERLAND CITY	TN
	QWW	MEMPHIS	TN
8.425/3.425	MDE	JASPER	GA
	SQC	JOHNSON CITY	TN
8.45 /3.45	VAK	HIGH PT/LOOKT MT	GA
	KRM	SHELBYVILLE	TN
8.50 /3.50	EQC	LOUISVILLE	KY
	X	LAUREL	MS
	PQZ	GREENSBORO	NC
	GYM	COLUMBIA	SC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	IN	DACULA	GA
	XE	ROARING GAP	NC
8.575/3.575	PXV	GRANDFATHER MTN	NC
8.60 /3.60	BA	MARIETTA	GA
	HYE	MENDENHALL	MS
	DWU	MT MITCHELL	NC
	CXD	FOREST	VA
8.625/3.625	PTK	JAMESTOWN	TN
8.65 /3.65	ZV	ATLANTA	GA
	D	ACKERMAN	MS
	AIH	ANDREWS/ROBBINSV	NC
	UMI	HAMPTON	VA
	BON	ROANOKE/POOR MT.	VA
8.70 /3.70	BA	MARIETTA	GA
	KGJ	HATTIESBURG	MS
	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
	DOR	BARTLETT	TN
8.75 /3.75	TF	COVINGTON	GA
	EDS	ALAMO	TN
	WIC	WINDY GAP MT	VA
8.80 /3.80	NFP	ATLANTA/MARIETTA	GA
	IAT	NATCHEZ	MS
	HNK	SUMMERVILLE	SC
	NDH	CHESAPEAKE	VA
	VA	INDEPENDNCE HILL	VA
	VA	INDEPENDNCE HILL	VA
	JRL	WYTHEVILLE	VA
8.85 /3.85	PN	WALESKA/PNLOG MT	GA
	ULM	FRANKLIN	TN
8.875/3.875	MZ	HAW RIVER	NC
	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.925/3.925	LJU	RINGGOLD	GA
8.95 /3.95	RYF	MEMPHIS	TN
	NTG	WILLIAMSBURG	VA
8.975/3.975	BRN	MEMPHIS	TN
	WJS	ROCKWOOD	TN
9.00 /4.00	QDX	LAWRENCEVILLE	GA
	WRX	JACKSON	MS
	JEQ	HICKORY	NC
	YP	SELMA	NC
	ADT	MEMPHIS	TN
	SN	PORTSMOUTH	VA
	IT	MULLENS/HRNDN MT	WV
9.025/4.025	MSE	STONE MT	GA
	RDK	MEMPHIS	TN
9.05 /4.05	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	AVA	GREAT FALLS	VA
	OLM	STUARTS DRAFT	VA
9.10 /4.10	MNI	BOWLING GREEN	KY
	WTT	LOUISVILLE	KY
	WUX	MERIDIAN	MS
	WTX	DURHAM	NC
	AM	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
	RAG	STAIMTPM/EL KNB	VA
	LFS	WILLIAMSBURG	VA
9.15 /4.15	ZTL	ATLANTA/BELL	GA
	BJT	CLERMONT HARBOR	MS
	YCR	NEW ALBANY	MS
	NTM	NASHVILLE	TN
	MB	ARLINGTON	VA
	ZR	LEXNGTN/ROCK MT.	VA
	VA	SPRINGFIELD	VA
9.175/4.175	COV	UNION	KY
9.20 /4.20	LBM	DECATUR	GA
	U	MAYTOWN	KY
	YNF	AHOSKIE	NC
	NHN	COLUMBIA	SC
	WL	COLUMBIA	SC
	YTU	BROWNSVILLE	TN
	NEX	MORRISTOWN	TN
	ECM	ENON	VA
	EZA	WAYNESBORO	VA
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	DC	GLASGOW/CVCTY	KY
	KNI	HENDSVL/BERWLW M.	NC
	F	SMITHFIELD	NC
	PAJ	BARTLETT	TN
	E	GREENBRIER	TN
	TFZ	CHARLOTTESVILLE	VA
9.30 /4.30	ZZD	LOUISVILLE	KY
	WOR	GREENSBORO	NC
	MNH	CHARLESTON	SC
	DRL	FISHERVILLE	TN
	GBI	KNOXVILLE	TN
	EFK	FALLS CHURCH	VA
9.325/4.325	BA	MARIETTA	GA
	T	WYTHEVILLE	VA
9.35 /4.35	JF	TIFTON	GA
	OCP	HIGHLAND HEIGHTS	KY
	V	GIBSONVILLE	NC
	BKY	GALLATIN	TN
	DBB	BEDFD/APL ORCH	VA
9.375/4.375	IZF	JASPER	GA
9.40 /4.40	UA	AUGUSTA	GA
	ULJ	HAMILTON	GA
	LU	LAWRENCEVILLE	GA
	RBL	LA GRANGE	KY
	LTW	MERIDIAN	MS
	YZF	FAYETTEVILLE	NC
	KOG	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	ARO	PETERSBURG	VA
	G	ALDERSON	WV
9.425/4.425	J	CHATTANOOGA	TN
	ISI	ALTAVISTA	VA
9.45 /4.45	YTU	BROWNSVILLE	TN
	KWP	GALLATIN	TN
	ZOA	FALLS CHURCH	VA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	APA	HENDERSON	KY
	MOP	LOUISVILLE	KY
	ICX	LEXINGTON	NC
	PEN	RALEIGH	NC
	LSP	BRISTOL/HLST MT	TN
	KSL	KNOXVILLE	TN
	ZAI	ALEXANDRIA	VA
	HEX	LYNCHBURG	VA
9.525/4.525	VF	GRETHEL	KY
	MRS	NEW HEBRON	MS
	DCD	MYB BCH/BRKSVIL	SC
9.55 /4.55	JEH	CONYERS	GA
	NEF	TYRONE	GA
	KQ	LEWISPORT	KY
	IF	N.BILOXI/D'IBERV	MS
	VTE	GASTONIA	NC
	VM	ROANOKE RAPIDS	NC
	Y	COOKEVILLE	TN
	OGT	HAMPTON	VA
9.575/4.575	OG	NASHVILLE	TN
9.60 /4.60	NMC	LOUISVILLE	KY
	CO	JACKSON	MS
	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	JXI	MEMPHIS	TN
	HFH	ALEXANDRIA	VA
9.625/4.625	WQ	ATLANTA	GA
	OCF	RICHTON	MS
	E	BLUEFIELD	VA
9.65 /4.65	IBW	SMYRNA	GA
	ST	PONTOTOC	MS
	MME	SALISBURY	NC
	NKM	GREENEVILLE	TN
	OYS	SHORT MTN	TN
	ARO	RICHMOND	VA
	QC	THOMAS	WV
9.675/4.675	EBZ	NEWNAN	GA
	DWU	ELLISVILLE	MS
	AY	NASHVILLE	TN
	MIZ	NORFOLK	VA
9.70 /4.70	LUQ	DALLAS	GA
	HHH	ELLIJAY TALONA M	GA
	ELN	VALDOSTA	GA
	AUN	LOUISVILLE	KY
	Y	BRANDON	MS
	JEH	ROCKY MOUNT	NC
	DRU	MT PLEASANT	SC
	WW9	GATE CITY	VA
	LG	MORGANTOWN	WV
9.725/4.725	NFA	WATKINSVILLE	GA
9.75 /4.75	EMM	CONYERS	GA
	VZF	STARKVILLE	MS
	TC	HENDERSON	TN
	KQI	FOREST	VA
	JYF	TYSONS CORNER	VA
	BNW	CHARLESTON	WV
9.775/4.775	NEQ	ATLANTA/MARIETTA	GA
	F	PARKERSBURG	WV
9.80 /4.80	ASI	COVINGTON	GA
	BEJ	ELIZABETHTOWN	KY
	CO	JACKSON	MS
	J	GREENVILLE	NC
	JXI	MEMPHIS	TN
	LP	MORRISTOWN	TN
	MIC	OILVILLE	VA
	FRV	BECKLEY/KINGSTON	WV
	CUL	MORGANTOWN	WV
9.825/4.825	UY	MT AIRY/FSH PK	NC
	UY	MT. AIRY	NC
	FC	MEMPHIS	TN
	ZBP	STAUNTON	VA
9.85 /4.85	BZJ	DALTON	GA
	YUU	LEXINGTON	KY
	WRE	POPLARVILLE	MS
	CQ	CHARLOTTE	NC
	GMP	WILMINGTON	NC
	ARO	RICHMOND	VA
9.875/4.875	LRD	CHATTANOOGA	TN
	BOX	JACKSON	TN
	FMD	JANE LEW	WV
9.90 /4.90	D	ACKERMAN	MS
	COS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
	IDG	WATERTOWN	TN
	QT	RIDGEWAY	VA
	FQR	WOODBRIDGE	VA
9.925/4.925	NNO	ATLANTA	GA
	PJR	JESUP	GA
	MKG	ASHLAND	KY
	PYQ	SOUTHAVEN	MS
	TTE	VICKSBURG	MS
	BUH	ANDERSON/SAS MT	SC
	VIH	DOVER	TN
	BON	ROANOKE/LONG RDG.	VA
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	EJA	LEXINGTON	KY
	WXL	RALEIGH	NC
	SIR	BENTON/BEAN MT	TN
	GP	CLARKSVILLE	TN
	NNE	MEMPHIS	TN
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	CQV	SO. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	TAT	ASHLAND	KY
	AGD	JACKSON	MS
	AZJ	PEARISBURG	VA
3.725/8.725	DN	FAIRFAX	VA
3.85 /8.85	YSV	WALUSKA/PINE LOG	GA
3.975/8.975	SDE	WOODFORD	VA
4.175/9.175	O	WINCHESTER	VA
4.225/9.225	JCE	MANASSAS	VA
4.60 /9.60	SJH	SPRINGFIELD	KY
4.825/9.825	DOC	ATLANTA	GA
4.875/9.875	DCS	ARLINGTON	VA
	DCS	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA
6.25 /3.25	HEX	LYNCHBURG	VA

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Pelham, Ga.

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Colfax, N.C.

Danville Micro
Danville, Va.

Celebrating S·E·R·A 20th Anniversary

Join SERA in 1991 as we celebrate the beginning of our 20th year of Service to the VHF/UHF Amateur Community. From its modest beginning in 1971 to its 8-State umbrella of Coordination efforts in 1991, SERA continues to lead the way, across the nation. Many Amateurs over the years have worked hard to make SERA what it is today as officers, appointees and Directors. Repeater owners and users with their cooperation, assured the success we have enjoyed.

SERA REPEATER INDEX LISTINGS BY CITY - BY STATE

GEORGIA REPEATERS

10 METERS

ALBANY	W4MM	29.58	29.68	D	L
ATL/MARIETTA	N4NEQ	29.54	29.64	*	L
DALTON	N4BZJ	29.58	29.68	*	AL

6 METERS

ATL/MARIETTA	W8BLA	52.09	53.09	*	L
AUGUSTA	K4EDU	52.03	53.03	N	
CARTERSVILLE	WB4AEG	52.07	53.07	D	PR
CONYERS	WB4JEH	52.55	53.55	*	
DALTON	N4BZJ	52.13	53.13	*	PR
FORSYTH	KB4KIN	52.13	53.13	*	
PINE LOG MT	WB4UPC	52.05	53.05	*	L
PINE LOG MT.	KE4PN	52.29	53.29	D	L
VALDOSTA	KB0Y	52.89	53.89	N	

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	D	PL
ADEL	KF4JF	144.53	145.13	N	
ALBANY	W4MM	144.55	145.15	D	L
ALBANY	W4MM	146.10	146.70	D	A
ALBANY	W4MM	146.13	146.73	D	
ALBANY	W4MM	146.22	146.82	D	
ALBANY	W4MM	147.72	147.12	D	K
ALBANY	WB4TFW	147.75	147.15	N	
AMERICUS	WD4EBB	147.87	147.27	N	
ASHBURN	WD4EVD	147.885	147.285	*	P
ATHENS	WA4BKF	146.145	146.745	D	P
ATHENS/CRAWFORD	K4TQU	147.975	147.375	*	
ATL/UNION CITY	WA4UPE	146.025	146.625	*	
ATLANTA	W4AQL	144.55	145.15	D	PE
ATLANTA	K4DRQ	144.69	145.29	N	
ATLANTA	W4DOC	144.75	145.35	N	
ATLANTA	WB4QGR	146.04	146.64	N	T
ATLANTA	W4DOC	146.22	146.82	D	P
ATLANTA	WA4YNZ	146.37	146.97	*	T
ATLANTA	WA4NNO	146.40	147.00	N	P
ATLANTA	K4YSB	147.705	147.105	N	Y
ATLANTA	KN4B	147.795	147.195	N	T
ATLANTA	WD4KDT	147.855	147.255	*	PL
ATLANTA/AIRPORT	W4REI	147.63	147.03	*	
ATLANTA/BELL	W4PME	144.81	145.41	*	AE
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/MARIETTA	N4NFP	146.055	146.655	*	AEL
ATLANTA/MARIETTA	N4NEQ	147.945	147.345	*	PELR
ATLANTA/SWEAT MT	KD4NC	146.13	146.73	D	LK
AUGUSTA	W4TUN	144.51	145.11	*	A
AUGUSTA	AA4UA	144.77	145.37	*	A
AUGUSTA	N4JA	144.89	145.49	D	
AUGUSTA	W4LWT	146.04	146.64	*	K
AUGUSTA	KT4N	146.34	146.94	*	
AUGUSTA	NA4I	146.385	146.985	*	P
AUGUSTA	NI4S	147.72	147.12	N	P
AUGUSTA	N4BMA	147.78	147.18	N	Y
BALDWIN	WD4NHW	147.78	147.18	N	A
BONAIRE	KM4DT	147.615	147.015	N	
BOSTON	W4UCJ	147.795	147.195	*	AE
BRNSWK/JEKYLL IS.	KB4PXX	144.81	145.41	D	
BRUNSWICK	K4TVE	146.13	146.73	N	A
CALHOUN/JASPER	KC4AQS	147.405	146.805	*	PLR
CARROLLTON	W4FWD	146.04	146.64	*	A
CARTERSVILLE	N4GIS	146.415	147.015	*	O
CEDARTOWN	W4CMA	147.72	147.12	*	P
CLAYTON	WA4BLQ	144.65	145.25	*	
CLEVELAND/LONG	WB4HIG	146.31	146.91	D	A
CLEVELAND/LONG	K4FOW	147.615	147.015	D	
COLUMBUS	KA4CEK	144.71	145.31	N	
COLUMBUS	W4CVY	146.01	146.61	N	A
COLUMBUS	WB4TOM	146.28	146.88	D	
CONYERS	WB4JEH	144.63	145.23	*	
CONYERS	WB4JEH	146.01	146.61	*	
CONYERS	KL7TF	147.81	147.21	*	PAEA
COOLIDGE	N4JBF	144.57	145.17	D	PR
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.325	146.925	*	AL
CUMMING/SAWNEE	K4BYK	147.75	147.15	*	PL
DAHLONEGA	N4KHQ	147.435	146.835	*	A
DALLAS	K4DVJ	146.25	146.85	N	PE
DALTON	KE4UJ	144.63	145.23	D	A
DALTON	N4BZJ	147.735	147.135	*	EL
DECATUR	W4BOC	144.85	145.45	N	
DOUGLASVILLE	N4UOX	144.51	145.11	*	
DOUGLASVILLE	WA4CLC	147.96	147.36	*	E
DUBLIN	WA4HZX	147.96	147.36	N	A
ELLIJAY-BUCK MTN.	N4YYD	144.65	145.25	*	A
ELLIJAY/TALONA M	W4HHH	146.385	146.985	*	A
EVANS	N4TDL	146.28	146.88	*	
FAYETTEVILLE	W4PSZ	144.61	145.21	N	PE
FAYETTEVILLE	K4UWN	146.085	146.685	*	
FOLKSTON	K4DMK	146.19	146.79	N	
FORSYTH	W4SPJ	147.315	147.915	N	NB
FORSYTH	KB4KIN	147.765	147.165	*	PL
GAINESVILLE	W4NSO	146.07	146.67	*	PE
GRIFFIN	K4HYB	144.79	145.39	*	P
GRIFFIN	K4HYB	146.31	146.91	D	
HARTWELL	WA4RBS	146.295	146.895	*	
HINESVILLE	KK4UV	144.87	145.47	*	A
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	144.77	145.37	*	RPL
JASPER	W4OOM	146.10	146.70	*	
JEFFERSON	KB4ZUN	147.825	147.225	N	
JESUP	WA4EQL	146.07	146.67	D	
JESUP	N4PJR	146.325	146.925	D	P
JESUP/SCREVEN	N4PJR	147.945	147.345	*	
JONESBORO	WA4DIW	144.57	145.17	*	E
JONESBORO	WA4OGE	144.73	145.33	N	E
LAFAYETTE	KB4VAK	147.975	147.375	D	
LAGRANGE	KO4R	146.25	146.85	N	O
LAGRANGE	WB4BXO	147.93	147.33	N	
LAVONIA	K4NVG	146.115	146.715	*	PT
LAWRENCEVILLE	WD4JXR	147.675	147.075	*	EP
LYONS	K4HAO	146.22	146.82	N	
MACON	WB4OLL	144.83	145.43	*	PLR
MACON	W4BKM	146.06	146.66	*	NBP
MACON	N3SM	146.295	146.895	*	A
MACON	WA4DDI	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	*	A
MARIETTA	K4LCI	144.83	145.43	N	E
MARIETTA	WA4QPL	144.89	145.49	N	PE
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4IUD	146.28	146.88	D	
METTER	W4TYM	147.645	147.045	*	AE
MIDWAY	KF4UM	147.615	147.015	*	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	PT
MILLEDGEVILLE	WB4DOJ	146.10	146.70	*	PEL
MILLEDGEVILLE	KF4LT	146.205	146.805	D	
MILLEDGEVILLE	K4FRM	147.735	147.135	D	
MORGANTON	K5GBS	146.475	147.075	*	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	P
NEWNAN	K4SEX	146.19	146.79	*	P
PERRY	KB4KIN	146.355	146.955	*	PL
PERRY	WL7ACY	147.90	147.30	*	AL
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	N	
PRESTON	WB4TOV	146.385	146.985	N	
QUITMAN	W4FGH	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROCKY TOP MT	K5PRE	146.355	146.955	N	
ROME	WB4YSV	147.90	147.30	N	
ROME/MT. ALTO	W4VO	146.34	146.94	*	P
ROSSVILLE	W4FGQ	144.75	145.35	*	
ROSWELL	N4CLA	147.66	147.06	D	PE
SAVANNAH	KK4TO	146.10	146.70	*	PE
SAVANNAH	W4HBB	146.28	146.88	N	
SAVANNAH	W4HBB	146.37	146.97	N	A
SAVANNAH	KK4TO	147.81	147.21	*	PE
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
ST. MARYS	KA4UUB	146.385	146.985	N	
STATESBORO	NC4D	147.705	147.105	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
STONE MT	W4BOC	146.16	146.76	N	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SWAINSBORO	K4VYX	146.19	146.79	N	O
SWEAT MT/MARIETTA	N4CLA	144.87	145.47	D	PE
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	*	
THOMPSON	WB4OCB	146.235	146.835	N	C
TOCCOA	KA4DIP	147.93	147.33	*	
TWIN CITY	N4REB	147.915	147.315	N	PR
VALDOSTA	N4ELN	146.16	146.76	N	PT
VALDOSTA	KB0Y	147.735	147.135	N	A
VIDALIA	N4JWP	146.025	146.625	*	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	D	L
WARM SPRINGS	N4UER	146.385	146.985	N	P
WARNER ROBINS	WB4BDP	146.01	146.61	D	A
WARNER ROBINS	WA4QWI	146.25	146.85	*	A
WATKINSVILLE	N4NFA	147.645	147.045	*	RPEL
WAYCROSS	WA4GBG	146.04	146.64	N	
WAYNESBORO	WD4COL	144.63	145.23	D	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	AL

220 MHZ

ALPHARETTA	KC4JNN	223.26	224.86	N	AT
ATL/CHESTNUT MT	W4DOC	222.96	224.56	N	L
ATL/MARIETTA	N4NEQ	222.84	224.44	*	PEL
ATLANTA	N4BLR	222.68	224.28	N	
ATLANTA	W4DOC	222.74	224.34	N	
ATLANTA	KK4C	223.22	224.82	D	PLR
ATLANTA/BELL	W4ZTL	223.02	224.62	*	
ATLANTA/MARIETTA	N4NFP	222.52	224.12	*	AEL
AUGUSTA	AA4UA	222.60	224.20	*	A
AUGUSTA	WB4KXO	223.34	224.94	*	P
BRUNSWICK	N3GLC	222.42	224.02	N	
CARTERSVILLE	N4GIS	222.48	224.08	*	
CLAYTON	WD4MBK	223.12	224.72	D	
CLEVELAND	N4RBT	222.78	224.38	D	P
CONYERS	WB4JEH	222.42	224.02	*	
CONYERS	KL7TF	222.80	224.40	*	PR
CORNELIA	WS4F	222.50	224.10	N	
CUMMING	K4JSR	223.38	224.98	*	PL
DALLAS	N4YDX	222.58	224.18	*	E
DALTON	N4BZJ	222.44	224.04	*	
DALTON	N4BZJ	223.08	224.68	*	
DALTON	N4KVC	223.14	224.74	*	ER
ELLIJAY-BUCK MTN.	N4YYD	222.64	224.24	*	
GAINESVILLE	W4NSO	222.30	223.90	*	PR
HIRAM	N4ZJG	223.36	224.96	N	A
MACON	W4BKM	223.06	224.66	*	
MARIETTA	WA4QPL	223.30	224.90	N	PE
NORCROSS	KB4PRH	222.88	224.48	D	
PERRY	WL7ACY	223.24	224.84	*	AL
PINE LOG MT.	WB4UPC	223.34	224.94	*	L
RINGGOLD	W4ABZ	223.04	224.64	N	P
ROME	WB4YSV	222.82	224.42	N	
ROSSVILLE	KC4EV	223.34	224.94	N	
SASAFRAS MTN.	KC4JNN	222.56	224.16	N	A
STONE MT.	W4BOC	223.16	224.76	N	
THOMASVILLE	N4JBF	222.72	224.32	D	AL
VALDOSTA	N4ELN	222.38	223.98	N	
WALESKA/PNLGMT	N4KSM	222.92	224.52	D	A
YORKVILLE	WB4UPC	222.34	223.94	*	L
YORKVILLE	WB4UPC	222.46	224.06	*	L
YORKVILLE	WB4UPC	223.28	224.88	*	

440 MHZ

ALBANY	W4MM	439.25	427.25	D	V
ALBANY	W4MM	449.50	444.50	D	
ALPHARETTA	WB6RTH	447.00	442.00	N	A
ATHENS	NB4X	448.30	443.30	D	
ATL/MARIETTA	N4NFP	447.80	442.80	*	
ATLANTA	W4DOC	444.825	449.825	N	NB
ATLANTA	WA4YNZ	447.975	442.975	*	TPL
ATLANTA	KE4ZV	448.65	443.65	*	K
ATLANTA	W4DOC	449.45	445.67	N	R
ATLANTA	WB4JWL	449.50	444.50	D	
ATLANTA	N4WQ	449.625	444.625	N	AO
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	*	PTLR
ATLANTA/BELL	W4ZTL	449.15	444.75	*	AE
ATLANTA/MARIETTA	N4NFP	448.80	443.80	*	P
ATLANTA/MARIETTA	N4NEQ	449.775	444.775	*	PLE
ATLANTA/STONE MT	WB4BOC	449.25	4.25	N	
AUGUSTA	N4JA	447.0	442.025	D	
AUGUSTA	AA4UA	445.40	444.40	*	
AUGUSTA	NA4I	449.9	444.95	*	
BRNSWK/JEKYLL IS.	KB4PXX	439.75	421.25	D	V
BRUNSWICK	K4TVE	449.75	444.975	N	O
CALHOUN/JASPER	KC4AQS	448.375	443.375	*	P
CHATSWORTH	N4OGF	448.00	443.00	N	
CONYERS	WB4JEH	447.55	442.55	*	
CONYERS	WB4JEH	449.55	444.55	*	
CONYERS	N4EMM	449.75	444.75	*	PL
COVINGTON	KL7TF	448.75	443.75	*	
COVINGTON	WA4ASI	449.80	444.80	*	AL
DACULA	KK4IN	448.55	443.55	*	ALCR
DALLAS	WD4LUQ	449.70	444.70	*	
DALTON	N4BZJ	449.85	444.85	*	
DECATUR	N3APR	447.20	442.20	N	A
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY	W4HHH	447.70	442.70	*	C
ELLIJAY TALONA M	W4HHH	449.70	444.70	*	O
ELLIJAY-BUCK MTN.	N4YYD	448.35	443.35	*	
GAINESVILLE	W4NSO	447.625	442.625	*	PERL
GRIFFIN	WB4GWA	448.90	443.90	*	PT
HAMILTON	WB4ULJ	449.40	444.40	N	PR
HAMPTON	N4RDM	448.40	443.40	N	PRP
HIGH PT/LOOKT MT.	KB4VAK	448.45	443.45	D	
JASPER	KB4MDE	448.425	443.425	N	
JASPER	KB4IZF	449.375	444.375	*	RPL
JESUP	N4PJR	449.925	444.925	*	
LAVONIA	K4NVG	447.475	442.475	*	PT
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
LAWRENCEVILLE	KC4LU	449.40	444.40	*	R
MACON	K4VTT	447.275	442.275	*	AELR
MARIETTA	KM4BA	448.60	443.60	N	PT
MARIETTA	KM4BA	448.70	443.70	N	
MARIETTA	K4PQD	449.05	444.05	N	
MARIETTA	KM4BA	449.325	444.325	N	PTO
NEWNAN	N4EBZ	449.675	444.675	N	P
PERRY	KB4KIN	449.95	444.95	*	PL
RINGGOLD	WA4LJU	448.925	443.925	N	
ROCKMART	KC4KLW	448.275	443.275	N	A
ROCKY FACE	AA4EO	447.175	442.175	N	
ROSSVILLE	N4PLP	447.125	442.125	N	C
SAVANNAH	WA4VHP	439.25	426.25	N	AV
SAVANNAH	KC4AZU	447.70	442.70	N	C
SMYRNA	N4IBW	449.65	444.65	N	
STOCKBRIDGE	N4JMD	448.325	443.325	N	PTR
STOCKBRIDGE	N4JMD	448.325	443.325	N	PTL
STONE MT.	N4MSE	449.025	444.025	N	
SWEAT MT	N4CLA	448.20	443.20	N	
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	N	
VALDOSTA	N4ELN	449.70	444.70	N	T
WALESKA/PNLOG MTK	E4PN	448.85	443.85	D	L
WALUSKA/PINE LOG	WB4YSV	443.85	448.85	N	NB
WARM SPRINGS	KN4FE	447.40	442.40	N	
WATKINSVILLE	N4NFA	449.725	444.725	*	RPEL

920 MHZ

DALTON	N4BZJ	907.10	919.10	*	PR

1270 MHZ

ATL/CHESTNUT MT	W4DOC	1291.40	1271.40	N	
ATLANTA/BELL	KB4KIN	1272.00	1292.00	*	

KENTUCKY REPEATERS

6 METERS

GUTHRIE	KA4ZKL	52.23	53.23	N	C
LOUISVILLE	WB4LBR	52.025	53.025	N	

2 METERS

ASHLAND	KD4SN	146.34	146.94	*	P
ASHLAND	KA4DII	147.84	147.24	*	P
ASHLAND	WA8KWH	147.93	147.33	*	A
BAXTER	WM4H	147.78	147.18	*	A
BENTON	WG4U	147.72	147.12	N	
BEREA	KI4B	146.115	146.715	N	
BETSY LAYNE	WA4YCU	146.035	146.635	N	
BOWLING GREEN	WD4MNI	146.055	146.655	*	PER
BOWLING GREEN	KA4CLL	146.25	146.85	N	
CAMPBELLSVILLE	WA4UXJ	146.04	146.64	*	
CLARKSON	KB4NFK	144.55	145.15	N	
CLARKSON	N4PXK	144.89	145.49	N	
CORBIN	WD4KWV	146.01	146.61	*	P
COVINGTON	WB8NON	144.81	145.41	*	
COVINGTON	WB8NON	147.99	147.39	*	A
DEANE	AK4U	144.61	145.21	D	L
DIXON	WD4RBI	147.78	147.18	N	
ELIZABETHTOWN	W4BEJ	146.38	146.98	*	AL
ELKHORN CITY	WB4WAU	147.60	147.00	D	
ERLANGER	N4BOP	144.61	145.21	N	
FAIR DEALING	N4AVE	147.84	147.24	N	
FERN CREEK	WB4NSY	146.16	146.76	N	A
FRANKFORT	KB4AGA	144.69	145.29	N	
FRANKFORT	K4NGQ	147.075	147.675	N	
FRANKFORT	KC4AI	147.84	147.24	N	
GLASGOW	KA0BKD	144.81	145.41	D	L
GLASGOW	W4WZH	146.34	146.94	D	A
GRAYSON	KF4JO	146.10	146.70	N	
GRETHEL	KJ4VF	147.645	147.045	N	C
GUTHRIE	KA4NNE	146.205	146.805	N	
HALLS GAP	WD8PRH	144.57	145.17	*	AL
HARLAN	WA4ZAC	147.69	147.09	N	
HAZARD	K4VHF	146.07	146.67	*	
HENDERSON	K4DPP	146.37	146.97	*	
HIGHLAND HEIGHTS	K4CO	147.855	147.255	*	
HOPKINSVILLE	WA4ZVL	147.63	147.03	N	A
INDEPENDENCE	K4JBV	146.295	146.895	*	A
IRVINGTON	WB4WVH	146.30	146.90	D	AE
LA GRANGE	N4RBL	144.75	145.35	*	
LA GRANGE	N4RBL	147.99	147.39	*	
LAWRENCEBURG	KK4PL	144.69	145.29	D	A
LEWISPORT	KN4KQ	146.085	146.685	N	A
LEXINGTON	N4YUU	144.73	145.33	N	P
LEXINGTON	KC4TX	144.85	145.45	D	P
LEXINGTON	K4KJQ	146.16	146.76	*	PE
LEXINGTON	W4AUZ	146.34	146.94	*	
LEXINGTON	WB4FDK	147.615	147.015	N	
LEXINGTON	WA4HBM	147.765	147.165	*	
LITCHFIELD	KB4NFK	147.825	147.225	D	
LOUISA	WA4SWF	146.13	146.73	*	ER
LOUISVILLE	WB8PRH	144.63	145.23	N	L
LOUISVILLE	W4BDC	146.10	146.70	*	PEL
LOUISVILLE	W4OAU	146.28	146.88	*	P
LOUISVILLE	W4PJZ	147.63	147.03	*	PET
LOUISVILLE	N4NMC	147.67	147.07	*	PE
LOUISVILLE	W4CN	147.78	147.18	*	PE
LOUISVILLE	N4KWT	147.87	147.27	N	
LOUISVILLE	KQ9Z	147.96	147.36	*	A
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MARION	KA4FGA	147.705	147.105	N	
MARION	KA4FGA	147.885	147.285	N	
MAYFIELD	WA4NAR	147.84	147.24	N	
MAYSVILLE	WA4WMM	144.87	145.47	*	P
MAYTOWN	AK4U	146.28	146.88	D	PLR
MIDDLESBORO	W4PPM	146.175	146.775	N	
MOREHEAD	K4GFY	146.31	146.91	*	
MT. STERLING	WD4KNE	147.93	147.33	*	P
MURRAY	WB4NTB	146.34	146.94	*	A
NICHOLASVILLE	WB4CWF	144.89	145.49	D	P
OWENSBORO	NW4A	147.63	147.03	N	
OWINGSVILLE	N4TLP	147.675	147.075	*	A
OXFORD	WD8PRH	144.63	145.23	*	AL
PADUCAH	K4CUW	146.16	146.76	N	
PADUCAH	W4WQ	147.66	147.06	N	
PAINTSVILLE	K4ICN	144.69	145.29	*	RL
PAINTSVILLE	AK4U	146.19	146.79	D	PL
PHELPS	KJ4YK	147.69	147.09	*	R
PIKEVILLE	N4IWZ	144.55	145.15	*	RPE
PIKEVILLE	KM4IV	146.25	146.85	*	ELR
PIKEVILLE	WB4GEL	147.87	147.27	N	P
PRESTONSBURG	WB4UBY	147.765	147.165	*	
PRINCETON	W4KBL	146.07	146.67	N	
PROVIDENCE	N4IUI	147.93	147.33	N	
RABBIT HASH	WA4OCP	146.355	146.955	N	
RADCLIFF	W4BEJ	146.325	146.925	*	AL
RINEYVILLE	KE4NS	146.355	146.955	*	
SALEM	N4IL	147.915	147.315	*	P
SALYERSVILLE	AK4U	147.90	147.30	D	L
SHELBYVILLE	KE4LR	147.60	147.00	*	P
SOMERSET	N4AI	146.28	146.88	*	
SOMERSET	N4AI	146.34	146.94	*	AL
SPRINGFIELD	WA4SJH	147.90	147.30	D	A
UNION CITY (TN)	WA4YGM	146.10	146.70	*	
VERSAILLES	WA4ZXK	146.13	146.73	D	O
WALTON	K4CO	147.975	147.375	*	
WHTSBRG/PINE MT	WD4PDJ	147.99	147.39	N	
WINCHESTER	WB4ASZ	147.72	147.12	*	AE

220 MHZ

ASHLAND	KC4QK	222.34	223.94	*	
LEXINGTON	WB8VMI	222.14	223.74	*	
LEXINGTON	N4YUU	223.34	224.94	N	
LOUISVILLE	KA4MKT	222.70	224.30	N	
LOUISVILLE	KB4VEZ	222.82	224.42	*	A
LOUISVILLE	W4MOP	223.22	224.82	N	P
PIKEVILLE	WB4F	222.98	224.58	N	
PIKEVILLE	N4ETG	223.02	224.62	N	A
VERSAILLES	WA4ZXK	222.62	224.22	D	PER

440 MHZ

ASHLAND	KA4MKG	449.925	444.925	N	C
ASHLAND	WB4TAT	449.975	444.975	*	
BOWLING GREEN	WD4MNI	449.10	444.10	*	LC
ELIZABETHTOWN	W4BEJ	449.80	444.80	*	AL
GLASGOW/CVCTY	KF4DC	449.25	444.25	D	
GRETHEL	KJ4VF	449.525	444.525	N	
HENDERSON	N9APA	449.50	444.50	N	
HIGHLAND HEIGHTS	WA4OCP	449.35	444.35	*	
LA GRANGE	N4RBL	449.40	444.40	*	
LATONIA	AA4XV	447.40	442.40	N	P
LEWISPORT	KN4KQ	449.55	444.55	N	AR
LEXINGTON	N4YUU	449.85	444.85	N	
LEXINGTON	WD4EJA	449.95	444.95	N	
LOUISVILLE	N4ORL	447.00	442.00	N	RP
LOUISVILLE	N4KWT	447.225	442.225	N	
LOUISVILLE	WA4MLF	447.50	442.50	*	AL
LOUISVILLE	WD9EQC	448.50	443.50	D	
LOUISVILLE	KA4WTT	448.10	444.10	*	PER
LOUISVILLE	WB4ZZD	449.30	444.30	*	
LOUISVILLE	W4MOP	449.50	444.50	N	P
LOUISVILLE	N4NMC	449.60	444.60	*	
LOUISVILLE	WA4AUN	449.70	444.70	N	
LYNCH/BLACK MT	N4IZD	448.10	443.10	N	
MAYTOWN	AK4U	449.20	444.20	D	L
OWENSBORO	WB4AOH	439.25	427.25	N	V
SPRINGFIELD	WA4SJH	444.60	449.60	D	
UNION	KC4COV	449.175	444.175	*	AR

MISSISSIPPI REPEATERS

10 METERS

POPLARVILLE	WA5WRE	29.52	29.62	D	O

6 METERS

HATTIESBURG	N5ILU	52.05	53.05	D	L
LAUREL	N5DWU	52.01	53.01	*	L

2 METERS

ABERDEEN	WB5USN	147.87	147.27	N	A
ACKERMAN	NO5N	147.72	147.12	N	
AMORY	KB5DSN	147.69	147.09	N	
BAY ST. LOUIS	N5GY	146.10	146.70	N	
BAY ST. LOUIS	K0VNO	146.25	146.85	N	
BILOXI	KC5IF	146.13	146.73	*	APER
BILOXI	K5TYP	146.19	146.79	N	
BLUE MT.	N5CAX	146.07	146.67	N	A
BOONEVILLE	WA5TEF	144.59	145.19	D	
BUDE	K5JMD	146.25	146.85	N	
CHATAWAH	WB5GOJ	144.71	145.31	N	PR
CLEVELAND	K5BWW	146.25	146.85	N	
CLINTON	AA5JC	147.945	147.345	N	PR
COLUMBIA	KB5EZN	147.885	147.285	N	P
COLUMBUS	KA5VOF	144.61	145.21	N	O
COLUMBUS	KA5VOF	147.60	147.00	D	A
CORINTH	WB5VOJ	146.325	146.925	N	
CORINTH	K5UFH	146.40	147.00	N	
ELLISVILLE	N5DWU	147.465	146.865	*	PLT
GREENVILLE	WA5MBA	146.22	146.82	N	A
GREENWOOD	KA5TQY	146.115	146.715	N	
GRENADA	WB5LVA	146.10	146.70	N	
GULFPORT	KA5CYR	144.73	145.33	N	A
GULFPORT	KA5VFU	147.975	147.375	*	L
HATTIESBURG	KA5NNX	144.77	145.37	N	
HATTIESBURG	KC5K	147.66	147.06	D	LRB
HATTIESBURG	W5CJR	147.96	147.36	*	
HERNANDO	K5VV	146.31	146.91	D	A
HORNLAKE	N5NBG	144.67	145.27	N	
INVERNESS	WA5UDQ	147.78	147.18	N	
IUKA	WB5MFK	146.25	146.85	N	A
JACKSON	W5ITL	146.04	146.64	N	E
JACKSON	W5AXQ	146.16	146.76	N	
JACKSON	KB5II	146.28	146.88	N	AE
JACKSON	KA5SBK	146.34	146.94	N	T
JACKSON	NC5Y	147.675	147.075	N	AT
KOSCIUSKO	W5LWC	146.25	146.85	N	
LAUREL	N5KKG	146.01	146.61	*	A
LAUREL	WV5D	146.43	147.03	*	
LOUISVILLE	N5KCG	147.96	147.36	N	A
MAGEE	KG5MZ	146.22	146.82	*	TLC
MAGEE	KA5LNY	147.90	147.30	*	P
MCCOMB	K5JMD	146.34	146.94	N	A
MENDENHALL	K5HYE	144.51	145.11	*	PR
MERIDIAN	W5DEJ	146.10	146.70	*	A
MERIDIAN	KA5MJM	146.37	146.97	D	RP
MONTICELLO	N5JHK	147.615	147.015	D	PR
MOOREVILLE	WB5NAY	146.04	146.64	N	A
N.BILOXI/D'IBERV	KC5IF	144.81	145.41	*	APER
NATCHEZ	W5KHB	146.085	146.685	D	
NATCHEZ	K5OCM	146.31	146.91	N	A
NATCHEZ	K5SVC	147.96	147.36	N	
NEW HEBRON	N5MRS	147.69	147.09	D	AEAT
OCEAN SPRINGS	W5LDD	147.63	147.03	*	A
OLIVE BRANCH	KA5WMH	144.75	145.35	N	C
PASCAGOULA	N5AAY	146.28	146.88	N	A
PASCAGOULA	KB5KYB	146.37	146.97	*	
PEARL	N5III	147.75	147.15	N	
PETAL	N5LRQ	147.735	147.135	D	
PHILADELPHIA	N5EPP	147.93	147.33	*	
PICAYUNE	K5LFP	144.55	145.15	*	A
PONTOTOC	WB5NAY	147.98	147.38	N	
POPLARVILLE	WA5WRE	144.61	145.21	D	OA
PORT GIBSON	KE5WO	146.025	146.625	N	
PRENTISS	WB5UNA	147.99	147.39	D	
SENATOBIA	KB5DMT	146.385	146.985	N	
SOUTHAVEN	N5PYQ	144.77	145.37	N	O
STARKVILLE	W5VZF	146.13	146.73	D	
TUPELO	AI5R	147.84	147.24	N	A
VICKSBURG	WJ5L	144.69	145.29	N	
VICKSBURG	WB5SXK	147.87	147.27	N	
WATER VALLEY	WB5QFX	146.40	147.00	*	
WAYNESBORO	N5HXG	147.705	147.105	N	PR
WEST POINT	KO5S	146.19	146.79	N	A
WIGGINS	KB5DZJ	144.67	145.27	*	L
WINONA	N4DHS	146.37	146.97	N	

220 MHZ

ACKERMAN	NM5D	223.18	224.78	N	
ACKERMAN	NM5D	223.22	224.82	N	
BAY ST. LOUIS	K5GY	223.10	224.70	N	
BAY ST. LOUIS	K0VNO	223.28	224.88	N	
BILOXI	K5TYP	222.90	224.50	N	
ELLISVILLE	N5DWU	222.80	224.40	*	PL
GLEN	KA5RPB	223.92	224.52	*	
PASCAGOULA	KB5KYB	222.72	224.32	*	PR
PONTOTOC	KE5ST	223.30	224.90	N	

440 MHZ

ACKERMAN	NM5D	448.65	443.65	N	
ACKERMAN	NM5D	449.90	444.90	N	
BRANDON	NC5Y	449.70	444.70	N	
CLERMONT HARBOR	WD5BJT	449.15	444.15	N	A
ELLISVILLE	N5DWU	449.675	444.675	*	P
HATTIESBURG	W4KGJ	448.70	443.70	D	L
JACKSON	KA5WRX	449.00	444.00	N	
JACKSON	KB5CO	449.60	444.60	N	PT
JACKSON	KB5CO	449.80	444.80	N	
JACKSON	KA5AGD	449.975	444.975	N	
LAUREL	AJ0X	448.50	443.50	*	AR
MENDENHALL	K5HYE	448.60	443.60	*	
MERIDIAN	WA5WUX	449.10	444.10	D	PEL
MERIDIAN	KB5LTW	449.40	444.40	N	
N.BILOXI/D'IBERV	KC5IF	449.55	444.55	*	APER
NATCHEZ	N5IAT	448.80	443.80	N	A
NEW ALBANY	WB5YCR	449.15	444.15	N	O
NEW HEBRON	N5MRS	449.525	444.525	D	A
PONTOTOC	KE5ST	449.65	444.65	N	
POPLARVILLE	WA5WRE	449.85	444.85	D	
RICHTON	N5OCF	449.625	444.625	*	RP
SOUTHAVEN	N5PYQ	449.925	444.925	N	O
STARKVILLE	W5VZF	449.75	444.75	D	PR
VICKSBURG	WB5TTE	449.925	444.925	N	PR

NORTH CAROLINA REPEATERS

10 METERS

MAYODAN	WA4ACP	29.56	29.66	N	T
NEWPORT	K4GRW	29.56	29.66	D	PR
WILKESBORO	KC4XE	29.52	29.62	*	L

6 METERS

GRANDFATHER MTN	WA4PXV	52.05	53.05	*	RL
NEWPORT	K4GRW	52.01	53.01	D	PR
RALEIGH	WA4PEN	52.03	53.03	*	O
RALEIGH/BUTNER	WB4RZF	52.25	53.25	N	C
STATESVILLE	WA4WRS	52.67	53.67	*	C
THOMASVILLE	K4AZA	52.525	52.525	*	RB

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	*	A
AHOSKIE	WA4ZGQ	146.31	146.91	*	P
ALBEMARLE	K4OGB	146.385	146.985	*	A
ANDREWS/ROBBINS	VWD4CNS	146.445	147.045	*	EL
AQUADALE	WA4CHZ	147.99	147.39	D	
ASHEBORO	KJ4AV	147.855	147.255	*	PL
ASHEVILLE	WA4QCO	146.235	146.835	N	
ASHEVILLE	N4UQS	147.825	147.225	N	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	*	A
BENSON	AK4H	147.87	147.27	*	P
BOONE/RICH MTN	WA4KDB	147.96	147.36	*	A
BREVARD/RICH MTN	WB4CJS	147.735	147.135	*	A
BURGAW	W4DLH	146.34	146.94	*	
BURLINGTON	WA4YGD	146.07	146.67	*	A
BURLINGTON	WA4HBQ	147.675	147.075	N	E
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	PK
CHARLOTTE	W4BFB	144.63	145.23	*	

This SERA Official Repeater Index Reflects Changes thru January 21, 1991

MORE NORTH CAROLINA REPEATERS

CHARLOTTE	W4BFB	144.69	145.29	*	A
CHARLOTTE	WA4AOS	144.75	145.35	N	L
CHARLOTTE	W4BFB	146.34	146.94	*	A
CHARLOTTE	W4CQ	146.46	147.06	*	A
CHARLOTTE	WD4PLY	147.99	147.39	N	P
CHERRY MT	WA4BKU	146.07	146.67	*	
CHERRYVILLE	K4JTX	144.55	145.15	N	
CLINTON	WA4LZD	146.19	146.79	N	
COLUMBIA	KB4TOH	144.51	145.11	N	CL
CONCORD/KANNAP	K4CEB	146.055	146.655	*	P
CROWDERS MT/GASTWD4PLY		144.85	145.45	*	
DUNN	N4CID	146.10	146.70	*	P
DURHAM	WA4WTX	144.85	145.45	D	AL
DURHAM	WA4BFT	146.34	146.94	N	A
DURHAM	WD4LDB	147.96	147.36	D	A
EDEN	WA4ACP	147.84	147.24	N	T
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WA4FLR	146.445	147.045	N	Y
FAYVLLE/CFARS	WB4YZF	146.31	146.91	D	P
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	D	
FOREST CITY	K4PBG	147.84	147.24	*	A
FRANKLIN	W4ZCZ	144.89	145.49	D	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	*	A
GASTONIA	N0IZF	146.205	146.805	*	P
GIBSONVILLE	WB4IKY	144.89	145.49	*	ART
GIBSONVILLE	KB4WRP	146.475	147.075	*	
GIBSONVILLE	WC3V	147.72	147.12	*	OART
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	N4GGD	144.65	145.25	*	EL
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	N4GGD	146.16	146.76	*	AER
GREENSBORO	W4GG	147.63	147.03	*	PL
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	N4GVK	144.75	145.35	*	AEL
GREENVILLE	K4ROK	147.975	147.375	D	A
GREENVL/ESTN NC	W4GDF	147.69	147.09	D	
GRIFTON	W4NBR	146.085	146.685	*	
HALIFAX	AA4SJ	146.07	146.67	N	OA
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW	MWA4KNI	144.67	145.27	*	A
HENDSVL/PENIC/MTWA4KNI		147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	*	
HIGH POINT	N4XO	144.81	145.41	D	A
HIGH POINT	KB4PBV	147.435	146.835	N	PL
HIGH POINT	WA4RIS	147.765	147.165	D	P
HILLSBOROUGH	WA4WTX	147.825	147.225	D	AL
JACKSONVILLE	WA4WGA	144.59	145.19	*	
JACKSONVILLE	WD4FVO	146.40	147.00	*	AE
JEFFERSON	W4YJG	147.90	147.30	*	A
KINSTON	W4OIX	144.87	145.47	*	A
LAURINBURG	KI4RR	146.025	146.625	*	PE
LENOIR	N4NIN	147.795	147.195	*	
LENOIR/HIBRITN	KN4K	147.93	147.33	D	
LEXINGTON	WD4ICX	144.71	145.31	N	AE
LEXINGTON	K4IZM	146.31	146.91	D	AE
LK NORMN/CLT	WB4KPF	147.615	147.015	D	P
LONG BEACH	K4JYH	146.175	146.775	*	
LUMBERTON	WV4Z	147.96	147.36	*	P
MACO	WA4LED	147.66	147.06	*	P
MADISON	KA4YFF	146.295	146.895	*	
MAGGIE VALLEY	W4HCY	147.405	146.805	D	O
MANTEO/WANCHESEW4ACY		146.34	146.94	*	A
MARION	WD4PVE	146.385	146.985	N	A
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	K4JCK	147.705	147.105	*	O
MONROE/UCARS	KF4NJ	144.79	145.39	*	P
MORGANTON	K4VLY	147.75	147.15	*	
MOUNTAIN HOME	K4GHH	147.705	147.105	*	
MT AIRY	N4XRY	146.34	146.94	*	
MT AIRY	N4XRY	146.37	146.97	*	
MT MITCHELL	WA4BVW	144.59	145.19	*	
MT. AIRY	KD4J	144.73	145.33	*	A
MURPHY	KC4WB	147.795	147.195	N	O
N. WILKESBORO	N4AGN	144.77	145.37	*	P
NAGS HEAD/BODIE	K4UOR	146.235	146.835	*	PE
NEW BERN	WD4JMS	146.01	146.61	*	AL
NEWPORT	K4GRW	144.85	145.45	D	ALO
NEWTON	AG4L	147.675	147.075	*	AER
NEWTON/ANDSN MTW4ZQB		144.57	145.17	*	
OXFORD	KA4RVS	144.57	145.17	D	P
OXFORD	WA4MII	144.77	145.37	*	
RALEIGH	N4BEA	144.67	145.27	D	PL
RALEIGH	K4BWC	144.89	145.49	*	Y
RALEIGH	W4DW	146.04	146.64	*	PE
RALEIGH	K4BWC	146.13	146.73	*	P
RALEIGH	WB4TQD	146.28	146.88	*	L
RALEIGH	WB4TQD	147.75	147.15	*	P
RANDLEMAN/GBO	WD4CVM	144.55	145.15	*	L
RED SPRINGS	W4MZP	147.90	147.30	*	P
REIDSVILLE	K4YFT	146.25	146.85	D	
ROANOKE RAPIDS	WA4DTS	147.63	147.03	D	P
ROARING GAP	WB4PZA	146.22	146.82	*	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	*	PE
SALISBURY	W4EXU	146.13	146.73	*	ELR
SANFORD	WB4EJJ	147.78	147.18	D	A
SAURATOWN MT	W4RXG	144.51	145.11	*	Y
SAURATOWN MT	W4NC	144.87	145.47	*	
SAURATOWN MT	N4QDK	146.19	146.79	N	P
SELMA	KK4YP	147.615	147.015	*	C
SHALLOTTE	K4PPD	144.77	145.37	*	PE
SHALLOTTE	K4PPD	147.915	147.315	*	
SHALLOTTE	N4FAU	147.99	147.39	D	PE
SHELBY	W4NYR	146.28	146.88	*	
SHELBY	W4NYR	147.945	147.345	*	P
SMITHFIELD	KD4JQ	146.37	146.97	*	A
SMITHFIELD	W2AC	147.99	147.39	*	
SPARTA/GREEN MT.	K4ITL	144.83	145.43	N	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	KB4QP	146.085	146.685	*	PE
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	Y
SWANSBORO	KO4S	146.16	146.76	*	A
TABOR CITY	W4DCD	147.975	147.375	N	ALR
THOMASVILLE	K4AZA	146.40	147.00	*	LA
TRENTON	WB4TQD	144.61	145.21	*	L
TRYON/MELROSE MTWB4SFK		147.78	147.18	D	C
TUCKASEGEE	W8OMV	147.90	147.30	N	
WADESBORO	W4USH	146.235	146.835	*	A
WALKERTOWN	K4JYH	147.915	147.315	*	
WASHINGTON	WA4TEP	147.945	147.345	D	
WAXHAW	WA4ZRS	147.465	146.865	*	P
WAYNESVILLE	N4SM	147.87	147.27	*	A
WHITEVILLE	K4MSD	147.81	147.21	*	AL
WILLIAMSTON	KA4KNU	144.81	145.41	*	A
WILMINGTON	W4VNK	146.13	146.73	*	PO
WILMINGTON	K4GMP	146.22	146.82	*	L
WILMINGTON	N4CTJ	147.78	147.18	N	AL
WILSON	WB4THL	146.16	146.76	*	A
WINSTON-SALEM	W4NC	146.04	146.64	*	AL

220 MHZ

ANDREWS/ROBBINSVK4AIH		224.28	224.88	*	TL
ASHEVILLE	NC4N	223.00	224.60	*	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	*	
BURNSVILLE	N4TFU	223.14	224.74	N	L
CANTON	N4DWU	223.22	224.82	*	P
CHARLOTTE	W4BFB	222.80	224.40	*	A
CHERRYVILLE	WB4UDS	223.36	224.96	N	
EDEN	WA4WGY	223.18	224.78	D	
FAYETTEVILLE	W4EHF	222.42	224.02	*	L
GOLDSBORO	WB3JVX	223.36	224.96	*	EPTL
GREENSBORO	WB4WOR	222.54	224.14	*	K
GREENSBORO	KC4HTS	223.22	224.82	N	PL
GRIFTON	WA4DAN	223.24	224.84	*	L
HENDSVL/BERWLW	MWA4KNI	222.64	224.24	*	
HIGH POINT	N4NNR	223.00	224.60	*	AL
HILLSBOROUGH	WA4WTX	222.34	223.94	D	L
LENOIR/HIBRITN	KN4K	222.56	224.16	D	
LINWOOD	KA4HUV	222.36	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	D	
LOCUST	WA4ZIA	222.88	224.48	*	PL
MARS HILL	WB4PLA	223.06	224.66	N	L
MARSHALL	KA4TYO	222.76	224.36	N	L
MAYODAN MT	WA4ACP	222.62	224.22	N	T
MORGANTON	WB4PML	223.20	224.80	*	
MT MITCHELL	WA4BVW	222.94	224.54	*	
MT. TOXAWAY	K4MSK	223.12	224.72	N	
RALEIGH	WA4PEN	223.04	224.64	*	PL
ROCKY MOUNT	NF4C	222.62	224.22	*	AR
SALISBURY	W4EXU	223.16	224.76	*	L
SAURATOWN MT	WA4YHH	222.98	224.58	*	
SAURATOWN MT	W4RXG	223.10	224.70	*	OY
SAURATOWN MT	W4RXG	223.28	224.88	*	O
SAURATOWN MT	WA4WTB	223.38	224.98	*	
STATESVILLE	WA4PVI	222.70	224.30	N	
THOMASVILLE	K4AZA	222.32	223.92	*	LA
WILMINGTON	K4YNY	222.90	224.50	D	LR
WINSTON-SALEM	WA4YHH	223.04	224.64	*	RP

440 MHZ

AHOSKIE	WB4YNF	449.20	444.20	*	T
ANDREWS/ROBBINSVK4AIH		448.65	443.65	*	L
ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	*	
CHARLOTTE	W4CQ	449.85	444.85	*	A
DURHAM	WA4WTX	449.10	444.10	D	AL
FAYETTEVILLE	WB4YZF	449.40	444.40	D	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	PR
GASTONIA	WB4VTE	449.55	444.55	*	
GIBSONVILLE	WC3V	449.35	444.35	*	C
GOLDSBORO	WB3JVX	448.05	443.05	*	ELT

SERA REPEATER SYMBOLS

(Note new codes effective February 1, 1991)

*	Full Member Supporter	M	T-MARC Terr. Repeater
D	Delinquent Membership	NB	Not on SERA Freq. Plan
N	Non-Member SERA	O	Off the Air Temporarily
A	Autopatch (Open)	P	Private Autopatch
B	Emergency Power	PR	Proposed Coordination
C	Under Construction	R	Remote Base System
E	Emergency Autopatch	T	Tone Accessed
K	Packet Operation	V	Television (SSTV/ATV)
L	Linked Repeater	Y	RTTY Operation

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but it does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

GRANDFATHER MTN	WA4PXV	448.575	443.575	*	C
GREENSBORO	WD4PQZ	448.50	443.50	*	ALR
GREENSBORO	WB4WOR	449.30	444.30	*	C
GREENVILLE	AI4J	449.80	444.80	N	
HAW RIVER	K2MZ	448.875	443.875	*	T
HENDSVL/BERWLW	MWA4KNI	449.25	444.25	*	
HICKORY	K4JEQ	449.00	444.00	*	
HIGH POINT	N4LXW	448.70	443.70	N	
LEXINGTON	WD4ICX	449.50	444.50	N	
LOCUST	WA4LBT	448.70	443.70	*	PL
MAYODAN	WA4ACP	447.10	442.10	N	
MT AIRY/FSH PK	KF4UY	449.825	444.825	*	LR
MT MITCHELL	N4DWU	448.60	443.60	*	
MT. AIRY	KF4UY	449.825	444.825	N	R
NEW BERN	WA4VBC	449.90	444.90	*	O
PITTSBORO	WB4MMY	447.55	442.55	*	CPT
RALEIGH	N4BEA	447.15	442.15	D	L
RALEIGH	N4LMR	447.45	442.45	N	PR
RALEIGH	WA4PEN	449.50	444.50	*	PL
RALEIGH	WA1WXL	449.95	444.95	D	
ROANOKE RAPIDS	KK4VM	449.55	444.55	N	
ROARING GAP	KC4XE	448.55	443.55	*	L
ROCKY MOUNT	N4JEH	449.70	444.70	*	P
SALISBURY	N4MME	449.65	444.65	*	A
SAURATOWN MT	K4AZA	439.25	421.25	*	V
SAURATOWN MT	N4GGC	448.10	443.10	*	L
SAURATOWN MT	WA4WTB	448.40	443.40	*	C
SELMA	KK4YP	449.00	444.00	D	C
SHELBY	W4NYR	439.25	427.25	*	V
SMITHFIELD	WK2F	449.25	444.25	N	
THOMASVILLE	K4AZA	447.90	442.90	*	L
WILMINGTON	K4YNY	447.500	442.500	D	ALR
WILMINGTON	K4GMP	449.85	444.85	*	
WILSON	NE4J	449.90	444.90	*	O

SOUTH CAROLINA REPEATERS

10 METERS

RKY RDG/WALLACE	KA4ABW	29.60	RMT.BS	N	R

6 METERS

PICKENS	WB4YXY	52.41	53.41	N	

2 METERS

AIKEN	W4TUN	144.57	145.17	*	A
AIKEN	N4ADM	147.885	147.285	*	P
ANDERSON	N4SZ	146.37	146.97	*	P
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	
AWENDAW	N4DRU	147.945	147.345	N	C
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	*	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	N	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	P
CHARLESTON	K4ILT	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	*	PL
CHELSEA	KB4GY	144.71	145.31	*	
CHERAW	KA4ABW	147.735	147.135	N	AE
CHESTER	KB4FJX	146.025	146.625	N	T
COLUMBIA	KC4LB	144.83	145.43	N	P
COLUMBIA	WB4NEP	146.115	146.715	N	P
COLUMBIA	N4NUY	147.93	147.33	N	
COLUMBIA	N4EOY	147.96	147.36	D	L
CONWAY	WD4JMT	144.51	145.11	D	
DILLON/PEE DEE	NN4N	146.145	146.745	*	
DORCHESTER	W4NAT	147.78	147.18	*	
FLORENCE	W4ULH	146.25	146.85	*	A
FLORENCE	WA4ISM	146.37	146.97	D	P
FT MILL/CAROWND	AA4SC	147.78	147.18	*	
GASTON	WB4NEP	144.61	145.21	N	P
GEORGETOWN	WD4DMI	147.975	147.375	N	
GREENVILLE	W4IQG	146.34	146.94	*	T
GREENVILLE	K4LEO	147.975	147.375	*	T
GREENWOOD	K4VIA	147.765	147.165	D	P
GREENWOOD/HODGESKB4CS		144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	*	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	*	P
HILTON HEAD	W4ILN	147.84	147.24	*	
INMAN	WD8OXE	144.55	145.15	*	P
LANCASTER	W4PAX	146.10	146.70	*	
LANCASTER	KC4AC	147.84	147.24	*	
LEXINGTON	KA4FEC	147.99	147.39	*	
LITTLE MT	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	E
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	N	P
MT. PLEASANT	K4ESG	147.90	147.30	N	PT
MYB BCH/BRKSVIL	W4DCD	147.885	147.285	N	AL
MYRTLE BEACH	WA4DDK	144.87	145.47	N	T
MYRTLE BEACH	WD4JMT	147.72	147.12	D	E
N. AUGUSTA	K4FKJ	146.13	146.73	*	
N. MYRTLE BEACH	K4HOG	147.63	147.03	*	P
N. SPARTANBURG	N4UZT	147.915	147.315	*	A
NEWBERRY	KB4CO	146.085	146.685	N	
ORANGEBURG	N3FYC	146.205	146.805	N	C
ORANGEBURG	KM4RP	147.69	147.09	N	
PICKENS	WB4YXZ	146.40	147.00	N	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	N	A
ROCK HILL	AA4PF	144.71	145.31	D	PL
ROCK HILL	K4YTZ	146.43	147.03	*	P
SANTEE	W4DTW	147.825	147.225	N	A
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	P
SIMPSONVILLE	WD4BJY	146.13	146.73	*	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	Y

MORE SOUTH CAROLINA REPEATERS

SPARTANBURG	K4JLA	147.69	147.09	*	
ST. MATTHEWS	AD4U	146.07	146.67	*	ALE
SUMMERTON	N4LWY	144.55	145.15	N	P
SUMTER	KB4FIQ	146.04	146.64	D	
SUMTER	WA4UMU	147.615	147.015	D	P
SUMTER/SHAW	W4VFR	147.66	147.06	*	A
WHITE HALL	W4BWZ	146.31	146.91	N	
WHITE OAK MTN	WD4MGM	147.885	147.285	*	

220 MHZ

AIKEN	W4TUN	223.36	224.96	*	TA
CHARLESTON	KA4NRL	222.58	224.18	N	P
COLUMBIA	K4RWN	223.04	224.64	N	P
COLUMBIA	N4EOY	223.30	224.90	D	LR
CROSS	KB4VFD	222.98	224.58	D	CA
FLORENCE	N4JJ	223.34	224.94	N	P
GREER	W4ILY	222.60	224.20	N	A
LITTLE MT	KA4FEC	222.52	224.12	*	
ORANGEBURG	WB4TGK	223.26	224.86	N	P
PARIS MT/GRNVL	W4NYK	223.32	224.92	*	
PICKENS	WB4QHF	222.80	224.40	*	P
PICKENS/CSRS HD	WB4QHF	222.54	224.14	*	LR
PICKENS/SASFR MT	AJ4N	222.72	224.32	*	
RIDGEVILLE	N4CII	222.50	224.10	*	
WEST SPRINGS	KT4G	222.84	224.44	N	P

440 MHZ

AIKEN	W4TUN	448.40	443.40	*	TA
ANDERSON/SAS MT	WD4BUH	449.925	444.925	*	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
CHARLESTON	N4MNH	449.30	444.30	*	A
COLUMBIA	N4EOY	448.00	443.00	D	LR
COLUMBIA	KC4GYM	448.50	443.50	*	T
COLUMBIA	N4WL	449.20	444.20	N	T
COLUMBIA	K4NHN	449.20	444.20	N	
CROSS	KB4VFD	447.30	442.30	D	CA
GREENVILLE	KJ4IS	447.25	442.25	*	O
GRNVLE/PARIS MT	ND4N	448.10	443.10	*	P
LEXINGTON	N4GUP	439.25	421.25	D	V
MT PLEASANT	N4DRU	449.70	444.70	N	
MYB BCH/BRKSVIL	W4DCD	449.525	444.525	N	ALR
PICKENS/CSRS HD	WB4QHF	447.40	442.40	*	
SUMMERVILLE	WA4HNK	448.80	443.80	*	P
SUMTER	WA4UMU	439.25	423.25	N	V

TENNESSEE REPEATERS

10 METERS

JACKSON	NQ4W	29.54	29.64	D	C
MEM/FISHERVILLE	N4DRL	29.58	29.68	*	AL
MEMPHIS	W4ZJM	29.52	29.62	N	L
NASHVILLE	WA4BZU	29.54	29.64	D	TLO
UNION CITY	WA4YGM	29.56	29.66	*	O

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	
GALLATIN	WD4KWP	52.45	53.45	D	L
GREENEVILLE	WB4NKM	52.01	53.01	*	
GUTHRIE (TN/KY)	KA4ZKL	52.23	53.23	N	
KNOXVILLE	WA4YON	52.25	53.25	N	
KNOXVILLE	WB4GBI	52.35	53.35	*	O
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	A
MEM/FISHERVILLE	N4DRL	52.27	53.27	*	AL
MEMPHIS	WA4KOG	52.01	53.01	*	
MEMPHIS	K4RDK	52.55	53.55	N	
NASHVILLE	N4ARK	52.525	145.21	*	R

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WA4PNI	144.71	145.31	*	
BENTON	K4SIR	144.85	145.45	N	T
BLOUNTVILLE	WA4KMG	147.60	147.00	*	
BRISTOL	WB4DKI	146.07	146.67	*	A
BRISTOL	WD4CYZ	146.28	146.88	N	
BRISTOL/HLSTN MT	K4LSP	146.16	146.76	N	A
BROWNSVILLE	KB4YTU	144.83	145.43	N	PL
BROWNSVILLE	WA4ABU	146.055	146.655	N	
CARTHAGE	N4OTT	144.59	145.19	*	P
CHATT/SIGNAL MT	AD4F	146.055	146.655	*	O
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	P
CHATTANOOGA	K4CMY	144.53	145.13	D	
CHATTANOOGA	K4VCM	144.69	145.29	*	
CHATTANOOGA	W4AM	144.79	145.39	*	A
CHATTANOOGA	K4CMY	146.01	146.61	*	
CHATTANOOGA	W4AM	146.19	146.79	*	A
CLARKSVILLE	WD4SGA	147.60	147.00	N	
CLARKSVILLE	AA4TA	147.99	147.39	*	A
CLEVELAND	W4GZX	146.31	146.91	*	A
COALFIELD	AA4UP	146.145	146.745	*	
COLLIERVILLE	KB4YGI	147.63	147.03	N	
COLUMBIA	WA4ZYX	147.72	147.12	*	A
COOKEVILLE	NQ4Y	144.51	145.11	N	
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	K4HKZ	147.645	147.045	N	C
COOKEVILLE	N4WS	147.81	147.21	*	PRE
COVINGTON	WA4VXW	147.93	147.33	D	PLK
CRAB ORCHARD	KA4QYI	146.04	146.64	N	C
CUMBERLAND CITY	WD4DBJ	144.73	145.33	*	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	*	
DOVER	N4VIH	144.81	145.41	N	
DYERSBURG	WB4RCK	146.145	146.745	N	
EASTVIEW	WA4GZX	144.79	145.39	N	
ERWIN	WB4BRV	144.65	145.25	N	AL
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	PA
FISHERVILLE	N4DRL	144.65	145.25	*	
FRANKLIN	KK4IY	146.385	146.985	*	
FRUITLAND	NU5O	144.67	145.27	*	
GALLATIN	WD4BKY	147.84	147.24	*	L
GALLATIN	WA4YQC	147.87	147.27	*	PL
GERMANTOWN	KA4ATI	147.69	147.09	N	
GRAY	WD4SBX	144.51	145.11	*	A
GRAY/HOLSTON MT	WD4SBX	147.81	147.21	*	
GREENBRIER	WQ4E	146.22	146.82	N	PR
GREENBRIER	WQ4E	147.675	147.075	N	
GREENEVILLE	K4EPC	144.79	145.39	*	
GREENEVILLE	WB4TUO	144.81	145.41	N	
GRNVLE/VIKING MT	KB4UG	147.66	147.06	*	R
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LE
GUTHRIE (TN/KY)	KA4NNE	146.205	146.805	N	
HENDERSON	K4TC	147.705	147.105	N	PE
HENDERSONVILLE	WB4WZK	144.67	145.27	*	PT
HENDERSONVILLE	N4WF	147.945	147.345	N	
HOHENWALD	KE4KO	144.85	145.45	*	
HUMBOLDT	NQ4Y	144.75	145.35	N	AL
JACKSON	WB7BOX	144.51	145.11	D	AL
JACKSON	KF4SC	144.71	145.31	D	A
JACKSON	W4WKZ	147.81	147.21	D	A
JAMESTOWN	K4NLP	147.69	147.09	*	
JASPER	KD4XX	144.59	145.19	*	A
JOHNSON CITY	WB4SQC	144.69	145.29	*	P
JOHNSON CITY	W4ABR	146.19	146.79	N	A
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	*	P
KNOXVILLE	N4IJL	144.51	145.11	N	O
KNOXVILLE	W4BBB	144.61	145.21	*	A
KNOXVILLE	WA4TEM	144.73	145.33	*	AR
KNOXVILLE	N4GRC	144.77	145.37	*	
KNOXVILLE	N4IUA	144.83	145.43	N	
KNOXVILLE	WB4GBI	144.87	145.47	*	
KNOXVILLE	WB4GBI	146.025	146.625	*	
KNOXVILLE	KB4KIE	146.10	146.70	N	
KNOXVILLE	WB4GBI	146.34	146.94	*	
KNOXVILLE	KA4AZQ	146.40	147.00	*	
KNOXVILLE	WB4GBI	147.675	147.075	*	A
KNOXVILLE	W4BBB	147.90	147.30	*	
KNXVL/ENG MT	WB4IOB	146.13	146.73	*	
LAFAYETTE	KC4ECD	144.71	145.31	*	ET
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE	KA4OAK	147.96	147.36	N	
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	*	A
LAVERNE	KJ4RA	144.63	145.23	N	
LEBANON	WB4DOR	144.79	145.39	D	
LEBANON	WD4JVV	147.615	147.015	N	
LENOIR CITY	KB4PIO	146.085	146.685	N	P
LEXINGTON	WD4MVR	146.43	147.03	N	
LOUDON	KE4SK	144.57	145.17	*	PL
MANCHESTER	W4UOT	146.10	146.70	*	A
MARTIN	WA4ZQX	146.025	146.625	D	A
MCMINNVILLE	WD4MWQ	146.37	146.97	D	P
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MCNAIRY	NU5O	147.675	147.075	*	
MEDINA	K4BEZ	146.37	146.97	N	A
MEM/FISHERVILLE	N4DRL	144.73	145.33	*	AL
MEMPHIS	K0JXI	144.55	145.15	N	
MEMPHIS	KA0BRN	144.57	145.17	N	ALT
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.85	145.45	*	PR
MEMPHIS	WA4KOG	144.89	145.49	*	
MEMPHIS	WB4NNE	146.04	146.64	D	O
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	D	P
MEMPHIS	WA4HBY	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	*	P
MEMPHIS	WA4KOG	146.25	146.85	*	A
MEMPHIS	WA4ETE	146.28	146.88	*	AL
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	W4ZJM	146.40	147.00	N	
MEMPHIS	WA4MQQ	147.66	147.06	N	
MEMPHIS	KA4GMV	147.72	147.12	N	AT
MEMPHIS	WA4KOG	147.78	147.18	*	
MEMPHIS	WA4OWI	147.87	147.27	N	
MEMPHIS	WA4ADT	147.90	147.30	D	PL
MEMPHIS	WB4MMI	147.96	147.36	N	TA
MORRISTOWN	KD4LP	144.85	145.45	N	
MORRISTOWN	WD4PRQ	147.63	147.03	N	E
MORRISTOWN	WB4OAH	147.825	147.225	*	A
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MURFREESBORO	WB4LHO	144.57	145.17	N	
NASHVILLE	N4ARK	144.61	145.21	*	RL
NASHVILLE	K4UVH	144.69	145.29	N	
NASHVILLE	KI4OG	144.77	145.37	D	AR
NASHVILLE	N4ARK	144.87	145.47	*	P
NASHVILLE	WA4PCD	146.01	146.61	N	PO
NASHVILLE	W4PQP	146.16	146.76	N	
NASHVILLE	W4SQE	146.19	146.79	*	
NASHVILLE	WA4PCD	146.25	146.85	N	P
NASHVILLE	WA4TOA	146.28	146.88	*	P
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	K4AYN	147.645	147.045	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WA4BZU	147.855	147.255	D	TP
NASHVILLE	WB4ZSA	147.90	147.30	D	P
NASHVILLE	WB4NTM	147.96	147.36	*	ATL
NASHVILLE W	WB4NTM	146.04	146.64	*	AT
NASHVILLE W	WB4NTM	146.07	146.67	*	ATL
NASHVLE/FAIRVIEW	N4ARK	144.51	145.11	*	
OAK RIDGE	W4SKH	146.28	146.88	*	
OAK RIDGE	W4SKH	146.37	146.97	*	A
OAK RIDGE	K4EAJ	147.72	147.12	*	
OAK RIDGE	K4EAJ	147.75	147.15	*	LT
OAKFIELD	WA4BJY	147.99	147.39	*	PRT
PARIS	K4KLX	147.96	147.36	N	A
PETROS/FRZ HD MT	KJ4SI	147.855	147.255	*	AER
PIKEVILLE	K4PUX	147.885	147.285	*	
PINSON	WB0TMC	147.87	147.27	N	C
POCAHONTAS	WB4MMI	147.96	147.36	N	
POLK CTY/OSWALD	WD4DES	147.78	147.18	N	A
PULASKI/MUSIC MT	W4JVO	146.175	146.775	D	E
PURYEAR	WA4CEX	147.765	147.165	*	
ROCKWOOD	AA4KS	147.615	147.015	D	AE
ROCKWOOD	KB4WYI	147.93	147.33	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	N	O
SHELBYVILLE	W4QEB	147.66	147.06	D	A
SHORT MTN	W4YXA	146.31	146.91	D	
SPRING HILL	NW4E	144.85	145.45	N	A
SULPHUR SPRINGS	WD4OBW	147.99	147.39	N	AL
TRENTON	KN4KP	146.265	146.865	N	AE
UNION CITY	WA4YGM	146.10	146.70	*	A
UNION CITY	WA4YGM	147.615	147.015	*	OAR
WATERTOWN	KE4WA	146.13	146.73	N	T
WATERTOWN	N4IDG	146.235	146.835	*	P
WINCHESTER	W4SFF	146.22	146.82	*	A

220 MHZ

BLOUNTVILLE	WA4KMG	222.60	224.20	*	
BROWNSVILLE	KB4YTU	222.60	224.20	N	PL
CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	*	
CLARKSVILLE	KF4GP	222.34	223.94	N	
CLEVELAND	KK4US	222.72	224.32	*	A
COLLIERVILLE	KB4YGI	222.80	224.40	N	PL
COLUMBIA	KE4KO	223.12	224.72	*	
FISHERVILLE	N4DRL	223.28	224.88	*	AL
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	D	
GREENBRIER	WQ4E	223.16	224.76	N	PR
GREENEVILLE	WB4NKM	220.058	BEACON	*	BEAC
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90	N	
JC/BUFFALO MT	WA4UCI	223.18	224.78	*	
KNOXVILLE	WA4YON	222.86	224.46	N	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNXVL/CROSS MT	KB4FZK	222.62	224.22	*	
LAFOLLETTE	KA4OAK	222.68	224.28	N	
MEM/FISHERVILLE	N4DRL	222.90	224.50	*	AL
MEMPHIS	W4ZJM	222.34	223.94	N	L
MEMPHIS	W4BS	222.82	224.42	*	L
MEMPHIS	WA4KOG	223.18	224.78	*	
NASHVILLE	WB4NTM	222.48	224.08	*	
NASHVILLE	KM4MC	222.56	224.16	N	ARTL
NASHVILLE	KI4OG	222.84	224.44	D	AER
NASHVILLE	KM4MC	223.06	224.66	N	AL
NASHVILLE	N4PYI	223.14	224.74	*	ALR
SHORT MTN	KE4NP	222.66	224.26	*	
SPRINGFIELD	KB8EHB	222.62	224.22	*	AER
SULPHUR SPRINGS	WD4OBW	223.26	224.86	N	AL

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
BARTLETT	WA4DOR	448.70	443.70	N	T
BARTLETT	WA4PAJ	449.25	444.25	N	
BENTON/BEAN MT	K4SIR	449.95	444.95	N	T
BRISTOL/HLST MT	K4LSP	449.50	444.50	N	A
BROWNSVILLE	KB4YTU	449.20	444.20	N	PL
BROWNSVILLE	KB4YTU	449.45	444.45	N	CPL
CHATTANOOGA	WJ9J	447.15	442.15	N	AELR
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	W4AM	449.10	444.10	*	A
CHATTANOOGA	WJ9J	449.425	444.425	N	AELR
CHATTANOOGA	WB4LRD	449.875	444.875	N	
CLARKSVILLE	KF4GP	449.95	444.95	N	
COOKEVILLE	NQ4Y	449.55	444.55	N	
CUMBERLAND CITY	WD4DBJ	448.40	443.40	*	PT
DOVER	N4VIH	449.925	444.925	N	
ETHRIDGE	AB4UP	447.675	442.675	*	C
FAYETTEVILLE	KC4GPM	448.10	443.10	D	O
FISHERVILLE	N4DRL	449.30	444.30	*	AL
FRANKLIN	N4ULM	448.85	443.85	N	
GALLATIN	N4SSB	448.30	443.30	*	C
GALLATIN	WD4BKY	449.35	444.35	*	PLT
GALLATIN	WD4KWP	449.45	444.45	D	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GRAY/HOLSTON MT	WD4SBX	447.20	442.20	*	A
GREENBRIER	WQ4E	449.25	444.25	N	
GREENEVILLE	WB4NKM	449.65	444.65	*	R
GRNVLE/VIKING MT	KB4UG	448.20	443.20	*	C
HENDERSON	K4TC	449.75	444.75	N	P
JACKSON	WB4EPG	447.80	442.80	N	A
JACKSON	WB7BOX	449.875	444.875	D	PERL
JAMESTOWN	N4PTK	448.625	443.625	*	
JASPER	KD4XV	447.05	442.05	*	
JOHNSON CITY	WB4SQC	448.425	443.425	*	
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	WB4GBI	449.30	444.30	*	
KNOXVILLE	KB4KSL	449.50	444.50	*	A
KNOXVILLE	KB4NK	449.60	444.60	D	
MEDINA	K4BEZ	447.05	442.05	N	AL

MORE TENNESSEE REPEATERS

MEMPHIS	N4ERU	421.25	439.25	N	V
MEMPHIS	N4ERU	439.25	421.25	N	ATV
MEMPHIS	WB4EPG	447.625	442.625	N	
MEMPHIS	WF4G	447.825	442.825	N	
MEMPHIS	W4ZJM	448.00	443.00	N	
MEMPHIS	KA4JXT	448.10	443.10	*	TCPR
MEMPHIS	W4BS	448.20	443.20	*	
MEMPHIS	WA4QWW	448.40	443.40	N	A
MEMPHIS	KA5RYF	448.95	443.95	N	
MEMPHIS	KA0BRN	448.975	443.975	N	ALT
MEMPHIS	WA4ADT	449.00	444.00	D	T
MEMPHIS	K4RDK	449.025	444.025	N	
MEMPHIS	KA4JXT	449.10	444.10	*	RP
MEMPHIS	WA4KOG	449.40	444.40	*	
MEMPHIS	K0JXI	449.60	444.60	N	
MEMPHIS	K0JXI	449.80	444.80	N	
MEMPHIS	K5FC	449.825	444.825	N	
MEMPHIS	WB4MMI	449.90	444.90	N	TAL
MEMPHIS	WB4NNE	449.95	444.95	D	O
MILAN	WD4ABJ	447.10	442.10	*	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MORRISTOWN	KD4LP	449.80	444.80	D	A
MT JULIET	WB4PUB	448.05	443.05	D	P
NASHVILLE	KJ4ZQ	439.25	421.25	N	V
NASHVILLE	KI4OG	449.05	444.05	D	ALTR
NASHVILLE	WB4NTM	449.15	444.15	*	ATL
NASHVILLE	KI4OG	449.575	444.575	D	O
NASHVILLE	W4AY	449.675	444.675	N	
OAK RIDGE	K4EAJ	449.40	444.40	*	L
OAKFIELD	WA4BJY	447.20	442.20	*	PTL
OSWALD DOME	WD4DES	447.25	442.25	N	
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
PULASKI	KB4TPI	439.250	421.250	D	V
PULASKI	KB4TPI	447.150	442.150	D	
ROCKWOOD	KA4WJS	448.975	443.975	D	
SHELBYVILLE	KC4KRM	448.45	443.45	N	
SHORT MTN	N4OYS	449.65	444.65	D	
WATERTOWN	N4IDG	449.90	444.90	*	P

920 MHZ

MORRISTOWN	KD4LP	908.00	920.00	N	P
MORRISTOWN	KD4LP	908.80	920.80	D	P

1270 MHZ

MEMPHIS	N4MW	1272.00	1292.00	*	
NASHVILLE	N4MEY	1277.25	1439.25	N	VL

VIRGINIA REPEATERS

(Listing updates for some repeaters courtesy of T-MARC)

10 METERS

NEWPORT NEWS	WB4CTF	29.60	29.60	D	R
ONEIDA PK/BLFLD	WZ8E	29.58	29.68	D	RL
ROANOKE/POOR MTW	B8BON	29.54	29.64	*	CL
STERLING	KD4DN	29.58	29.68	M	M

6 METERS

ALEXANDRIA	WA4CCF	52.13	53.13	M	ML
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CENTERVILLE	KA4DCS	52.58	52.48	M	M
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
HERNDON	WD4KHP	52.62	52.82	M	TM
LEXNGTN/ROCK MT	KI4ZR	52.01	53.01	*	L
LOUISA	KA4NNN	52.07	53.07	N	
RICHMOND	WB4FAX	52.43	53.43	*	
RIDGEWAY	AA4QT	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L
ROANOKE/POOR MTW	B8BON	52.09	53.09	*	CL
VIRGINIA BEACH	WD8DAS	52.19	53.19	N	

2 METERS

ABINGDN/BRMLY MTK	4LSP	146.01	146.61	N	L
ABINGDON	N4AKZ	146.34	146.94	*	A
ACCOMAC	WA4TVS	147.855	147.255	*	E
ALEXANDRIA	WB4MJF	144.55	145.15	M	M
ALEXANDRIA	N4FSC	144.71	145.31	M	MP
ALEXANDRIA	WD4PDP	146.055	146.655	M	MP
ALEXANDRIA	W4HFH	147.915	147.315	M	ML
ALTAVISTA	WA4ISI	146.055	146.655	*	PLE
ALTON	WD4LBM	146.46	147.06	N	
ARLINGTON	N4EFJ	144.87	145.47	M	M
BARREN SPRINGS	K4HZS	146.07	146.67	D	
BEAVERDAM	N4CZJ	144.65	145.25	N	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	*	
BEDFORD	WB4JBJ	147.705	147.105	N	PL
BLACKSBURG	AB9I	146.115	146.715	*	
BLAND	N4AZJ	144.75	145.35	*	RP
BLUEFIELD	WB4MOP	144.89	145.49	D	P
BRISTOL	WD4CYZ	146.28	146.88	N	
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	*	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	*	
CHASE CITY	W4AXH	146.31	146.91	*	
CHESAPEAKE	K4NDH	144.69	145.29	N	E
CHESAPEAKE	N4GSP	146.01	146.61	*	AE
CHESAPEAKE	N4SD	146.19	146.79	*	AE
CHESTERFIELD	KA4CBB	147.96	147.36	*	PE
COVINGTON	WA4HTI	146.205	146.805	*	L
CULPEPER	N4FAF	147.72	147.12	M	M
DANTE	WD4CYZ	147.855	147.255	N	
DANVILLE(DCC)	WB4GJG	146.325	146.925	*	AE
DANVILLE/WHT OAK	K4WQS	146.10	146.70	D	P
ENON	WA4ECM	147.66	147.06	*	P
FAIRFAX	WA4YVM	144.57	145.17	M	M
FAIRFAX	W4LBL	146.19	146.79	M	MP
FALLS CHURCH	W4AQD	144.75	145.35	M	MT
FARMVILLE	WA4QQI	144.73	145.33	*	
FINCASTLE	W4WIC	146.04	146.64	*	A
FRANKLIN	K4SPS	147.90	147.30	*	PE
FREDRICKSBURG	WB4LNT	147.615	147.015	M	M
GALAX/BRIRP MT	N4VL	147.69	147.09	*	A
GALAX/LKOUT MT	N4VL	144.53	145.13	*	R
GATE CITY	N4WWB	146.22	146.82	N	
GLADYS	N4SJM	147.945	147.345	*	RP
GLOUCESTER	KN4EE	144.77	145.37	D	E
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GRUNDY/BIG A MT	WD4DCX	146.235	146.835	N	L
GUM SPRING	WB4IKL	147.87	147.27	*	
HAMPTON	K4DHO	146.13	146.73	*	PE
HAMPTON	K4UMI	146.34	146.94	N	T
HARRISONBURG	WX4C	147.825	147.225	M	AM
HARRISONBURG	K4SAD	147.915	147.315	N	A
JEWELL RIDGE	WB4QJZ	147.75	147.15	N	
KILMARNOCK	W2MS	144.61	145.21	*	A
LEESVILLE	N4UTN	146.235	146.835	N	P
LEXINGTON	KI4ZR	146.07	146.67	*	OR
LEXINGTON	KI4ZR	147.90	147.30	*	A
LEXNGTN/ROCK MT	KI4ZR	147.93	147.33	*	
LUNENBURG CT.	HSEAA4OG	147.84	147.24	*	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	AB4M	146.415	147.015	*	P
LYNCHBURG	WA4RTS	147.795	147.195	*	
LYNCHBURG	KB4ILD	147.975	147.375	N	P
MADISON	N4AJO	147.99	147.39	M	M
MANASSAS	WA4FPM	146.37	146.97	M	MP
MARION	KC4SKE	144.67	145.27	N	
MARION	KC4IH	146.04	146.64	N	A
MARTINSVILLE	KM4ZS	144.69	145.29	N	A
MARTINSVILLE	KM4ZS	147.885	147.285	*	P
MCLEAN	WD4IWG	147.81	147.21	M	MY
MIDDLEBROOK	W4WRN	146.37	146.97	N	E
MOUNTAIN LAKE	WZ8E	147.465	146.865	D	PL
MT.LAKE/BALD KNB	K4TUE	146.31	146.91	D	P
NEW MARKET	K4AVW	146.025	146.625	M	M
NEWPORT NEWS	W4MT	144.63	145.23	D	AEC
NEWPORT NEWS	WA4OHX	144.89	145.49	*	AT
NEWPORT NEWS	WB4CTF	147.765	147.165	D	PLR
NORFOLK	WA4ZUA	144.57	145.17	*	PER
NORFOLK	NE4D	146.10	146.70	D	E
NORTON/HIGH KNOB	K4AXO	146.415	147.015	*	LP
ONEIDA PEAK/BLF	WZ8E	146.355	146.955	D	PL
PEARISBURG	N4AZJ	147.735	147.135	*	
PENNINGTON GAP	N4LQC	146.10	146.70	N	
PETERSBURG	K4ARO	144.55	145.15	*	
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	*	P
PORTSMOUTH	W4POX	146.25	146.85	*	AE
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	WB4FAX	144.59	145.19	*	
RICHMOND	W4SQT	144.83	145.43	D	P
RICHMOND	WB4QEY	146.04	146.64	N	P
RICHMOND	WA4ZBE	146.28	146.88	D	P
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	T
ROANOKE	N4AP	146.34	146.94	N	A
ROANOKE/POOR MTK	C4DY	146.145	146.745	*	P
ROANOKE/POOR MTW	C4A	146.385	146.985	*	PL
ROANOKE/POOR MT.	WB4QOJ	144.61	145.21	N	YVKL
ROANOKE/POOR MTN	K4ARO	144.79	145.39	*	LC
SALEM	W4PDL	146.28	146.88	*	
STAFFORD	NM7J	144.67	145.27	M	M
STANARDSVILLE	N4RAG	146.295	146.895	*	AE
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	RY
STAUNTON/EL. KB	N4RAG	147.645	147.045	*	
STERLING	WA4TXE	146.115	146.715	M	M
STUARTS DRAFT	KB4OLM	147.96	147.36	N	
SUFFOLK/GASBURG	WA4HMT	146.40	147.00	*	PE
TYSONS CORNER	WD4HLF	146.31	146.91	M	MP
VIENNA	K4HTA	146.085	146.685	M	M
VIRGINIA BEACH	WA4KXV	146.295	146.895	*	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	E
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	N	
WARRENTON	WB4FJT	147.765	147.165	M	M
WARSAW	KA4ZIP	147.93	147.33	*	E
WAYNESBORO	W4BLD	147.63	147.03	*	O
WAYNESBORO	W4PNT	147.675	147.075	*	PEL
WILLIAMSBURG	W4NTG	146.07	146.67	*	
WILLIAMSBURG	KB4ZIN	146.16	146.76	D	A
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	M
WINCHESTER	W4RKC	146.22	146.82	*	ME
WOODBRIDGE	WB4FQR	147.84	147.24	M	MA
WYTHEVILLE	WD4MUQ	146.175	146.775	*	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	ML
ARK	N4BLQ	223.02	224.62	*	PE
ARLINGTON	KI4MB	222.46	224.06	M	M
BEDFD/APL ORCH	WB4DBB	223.94	222.34	*	RL
BEDFORD	N4PLV	223.24	224.84	*	
DANVILLE	WB4GJG	222.78	224.38	*	
DANVLE/WHITE OAK	N4GLA	222.84	224.44	*	AE
DELTAVILLE	AA4HQ	222.40	224.00	*	AE
FAIRFAX	WB4YHD	222.50	224.10	M	ML
FAIRFAX	WD4KHP	222.82	224.42	M	MPLT
FALLS CHURCH	N4CHP	223.38	224.98	M	MP
GASBURG/LK GAST	NWA4HMT	223.00	224.60	*	C
HAMPDEN-SYDNEY	WB4PEA	222.60	224.20	*	O
HAMPTON	KB4UHA	223.26	224.86	D	AER
LEESBURG	WA4TXE	222.42	224.02	M	M
LOVETTSVILLE	WB4FUJ	222.86	224.46	M	M
LYNCHBURG	AB4M	222.68	224.28	*	P
MANASSAS	WA4FPM	223.06	224.66	M	M
MARTINSVILLE	WB4BVI	222.90	224.50	*	P
NORTON/HIGH KB	WA4NDQ	222.82	224.42	*	R
PETERSBURG	K4ARO	223.10	224.70	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	*	
STERLING PARK	WD4KHP	222.12	223.72	M	M
STUARTS DRAFT	KB4OLM	223.36	224.96	N	AL
TYSONS CORNER	WD4KHP	223.12	224.72	M	M
VIENNA	K4HTA	222.34	223.94	M	M
VIRGINIA BEACH	WD8DAS	222.58	224.18	N	
VIRGINIA BEACH	N4WQJ	223.14	224.74	N	
WOODBRIDGE	WB4GJZ	223.18	224.78	M	M

440 MHZ

ALEXANDRIA	WA9GVK	439.25	426.25	M	MV
ALEXANDRIA	WA4ZAI	449.50	444.50	M	M
ALEXANDRIA	W4HFH	449.60	444.60	M	M
ALTAVISTA	WA4ISI	449.425	444.425	*	PLE
ARLINGTON	KA4DCS	444.875	449.875	M	M
ARLINGTON	KI4MB	449.15	444.15	M	M
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
BLUEFIELD	WZ8E	449.625	444.625	D	PL
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	K4NDH	448.80	443.80	N	P
CHESAPEAKE	N4EVG	448.90	443.90	D	PE
COVINGTON	WA4HTI	447.25	442.25	*	O
ENON	WA4ECM	449.20	444.20	*	R
FAIRFAX	KD4DN	443.725	448.725	M	ML
FALLS CHURCH	N4EFK	449.30	444.30	M	M
FALLS CHURCH	K8ZOA	449.45	444.45	M	ML
FOREST	W8CXD	448.60	443.60	N	O
FOREST	WD4KQI	449.75	444.75	N	A
GALAX/PT LOOKOUT	N4VL	448.00	443.00	*	LT
GASBURG	WA4HMT	447.00	442.00	*	C
GATE CITY	N4WWB	449.70	444.70	N	L
GREAT FALLS	N3AVA	449.05	444.05	M	M
HAMPTON	K4UMI	448.65	443.65	N	
HAMPTON	K4OGT	449.55	444.55	*	T
INDEPENDNCE HILL	AA4VA	448.80	443.80	M	M
INDEPENDNCE HILL	AA4VA	448.80	443.80	D	
LEXNGTN/ROCK MT.	KI4ZR	449.15	444.15	*	
LYNCHBG/JACK MT.	KF4YI	447.40	442.40	*	P
LYNCHBURG	K4HEX	426.25	923.25	N	CV
LYNCHBURG	AB4FU	447.95	442.95	*	PT
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	ML
MARION	N4IQV	447.00	442.00	*	ATR
NORFOLK	W4WIN	439.25	426.25	N	V
NORFOLK	WD4MIZ	449.675	444.675	N	
OILVILLE	KB4MIC	449.80	444.80	*	P
PEARISBURG	N4AZJ	449.975	444.975	*	
PETERSBURG	K4ARO	449.40	444.40	*	T
PORTSMOUTH	KK4SN	449.00	444.00	*	AE
RICHMOND	N4LFU	448.35	443.35	*	
RICHMOND	K4ARO	449.65	444.65	*	
RICHMOND	K4ARO	449.85	444.85	*	
RIDGEWAY	AA4QT	449.90	444.90	N	
ROANOKE	KA4YUY	447.175	442.175	*	
ROANOKE/LONG RDG	WB8BON	449.925	444.925	*	O
ROANOKE/POOR MTW	C4A	447.50	442.50	*	L
ROANOKE/POOR MT.	N4FHL	426.25	439.25	N	V
ROANOKE/POOR MT.	N4VG	447.70	442.70	*	
ROANOKE/POOR MT.	WB8BON	448.65	443.65	*	C
SPRINGFIELD	AA4VA	449.15	444.15	M	M
STAIMTPM/EL KNB	N4RAG	449.10	444.10	*	
STAUNTON	WA4ZBP	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
STERLING	WA4TXE	447.20	442.20	M	M
STUART/SPOON MTN	KB4KQI	448.30	443.30	N	R
STUARTS DRAFT	KB4OLM	449.05	444.05	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	M
TYSONS CORNER	K4JYF	449.75	444.75	M	M
VIENNA	K4HTA	448.25	443.25	M	M
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	E
WAYNESBORO	KA5NOJ	439.25	426.25		V
WAYNESBORO	WA4EZA	449.20	444.20	*	
WILLIAMSBURG	W4NTG	448.95	443.95	*	
WILLIAMSBURG	WB5LFS	449.10	444.10	D	T
WINCH/BLUEMONT	WA4TSC	444.925	449.925	M	M
WINCHESTER	NB3O	444.175	449.175	M	M
WINCHESTER	W3CSG	447.00	442.00	M	M
WINDY GAP MT	W4WIC	448.75	443.75	*	A
WOODBRIDGE	KA4DCS	444.875	449.875	M	M
WOODBRIDGE	WB4FQR	449.90	444.90	M	M
WOODFORD	WA4SDE	443.975	448.975	M	M
WYTHEVILLE	KA4JRL	448.80	443.80	N	C
WYTHEVILLE	WB3T	449.325	444.325	*	AL

920 MHZ

ALEXANDRIA	WA4CCF	907.60	919.60	M	M

1270 MHZ

ALEXANDRIA	WA4CCF	1270.60	1282.60	M	M
APL. ORCH. MTN.	WB4DBB	1271.02	1291.02	*	
VIENNA	WR4S	1272.00	1292.00	M	M

WEST VIRGINIA REPEATERS

(Listing updates for some repeaters courtesy of T-MARC)

10 METERS

BERKELEY SPRINGS	KK3L	29.52	29.62	M	M
PARSONS	KE8QC	29.54	29.64	*	TLO

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	N	
ST ALBAN/COAL MT	WD8JKA	52.03	53.63	N	ATNB

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/BOLT	N8FRV	144.57	145.17	*	AL
BECKLEY/EOC	N8FWL	144.77	145.37	D	A
BECKLEY/FLAT TOP	K8BO	146.25	146.85	D	A
BECKLEY/LAYLAND	WF1G	144.71	145.31	*	L
BLUEFIELD	W8MOP	144.89	145.49	D	P
BRIDGEPORT	WB8DKM	147.72	147.12	*	PT
BUCKHANNON	N8FHE	144.53	145.13	*	AL
BUCKHANNON	N8FHE	144.81	145.41	*	A
BUCKHANNON	WD8L	146.25	146.85	D	
CHARLES TOWN	N8EIV	146.385	146.985	M	MA
CHARLESTON	WS8L	144.83	145.43	*	P
CHARLESTON	WB8IFS	146.22	146.82	N	A
CHARLESTON	KD8TC	147.81	147.21	N	
CLARKSBURG	N8FMD	146.085	146.685	D	L
CLARKSBURG	KE8MR	147.915	147.315	D	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
ELK GARDEN	N8FMD	146.145	146.745	D	
ELKINS	KB8BWZ	146.175	146.775	*	
FAIRMONT	W8SP	146.30	146.90	N	NB
FLAT TOP/WINTRPL	WF1G	146.025	146.625	*	A
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	WB8MZI	146.01	146.61	N	
GLENVILLE	KA8ZXP	144.69	145.29	*	AELR
GRAFTON	WD8LNB	147.975	147.375	*	
GRANTSVILLE	N8LGY	144.85	145.45	*	P
HARRISVL/PENSBRO	WB8NSL	147.90	147.30	N	
HORSEPEN MT	NV8H	147.795	147.195	*	PL
HUNTINGTON	WB8FEQ	144.61	145.21	N	Y
HUNTINGTON	W8VA	146.16	146.76	N	PEL
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	ER
KINGSTON/LICK KB	W8FG	144.87	145.47	N	
LEON	WB8NMT	147.78	147.18	N	O
LIBERTY	W8HYX	144.81	145.41	*	
LOGAN	WA8ZLR	146.09	147.11	N	NB
LOGAN/SUMERCO	NU8K	147.945	147.345	*	PL
LOGAN/WARD RK MTK	J8E	146.37	146.97	*	PL
MARMET/BEE MT	K8HDB	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	M
MARTINSBURG	WB8VAZ	147.855	147.255	M	M
MCMECHEN	N8FQN	146.31	146.91	*	
MONTGOMERY	KD8VT	144.65	145.25	*	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	*	PL
MORGANTOWN	KE8QC	147.675	147.075	*	PLR
MT STORM	KA8JTH	147.705	147.105	*	PLER
MULLINS/HRNDN MTK	C8IT	147.63	147.03	*	R
NEW MARTINSVLLE	WB8CSW	147.54	146.94	N	NB
OAK HILL	W8OQC	146.19	146.79	*	E
PARKERSBURG	WY8F	144.89	145.49	*	APR
PARKERSBURG	WF8U	146.145	146.745	D	AE
PARKERSBURG	WA8CRW	146.37	146.97	*	A
PARKERSBURG	WY8F	147.96	147.36	*	PR
PARKERSBURG	WA8CRW	147.99	147.39	*	P
PARSONS	KE8QC	144.73	145.33	*	LREP
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KA8PNC	146.46	147.06	*	A
PRINCETON	WB8NRK	147.825	147.225	*	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	D	P
RAVENSWOOD	WD8JNU	146.10	146.70	D	R
RICHWOOD	WB8YJJ	144.59	145.19	N	
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	WC8S	147.87	147.27	*	PEL
SHERRARD	KD8GL	146.115	146.715	*	EPL
SO. CHARLESTON	WB8CQV	146.28	146.88	N	L
SPENCER	WT8Z	147.705	147.105	N	
SPRUCE KNOB	N8HON	147.885	147.285	*	L
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	KA8SVR	147.75	147.15	*	PELR
ST ALBANS	K8WMX	147.975	147.375	*	Y
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	*	
TERRA ALTA	KD8ZR	147.60	147.00	*	AE
UPPER TRACT	KB8BUC	146.055	146.655	*	
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	P
WHEELING	WB8JGY	144.58	145.18	N	PL
WHEELING	W8ZQ	146.16	146.76	*	P
WILLIAMSON	WR8M	144.73	145.33	*	AR

220 MHZ

CHARLESTON	WB8YST	222.76	224.36	N	C
FLAT TOP/WINTRPL	WF1G	222.46	224.06	*	A
KINGSTON/LICK KB	W8FG	223.14	224.74	N	
PARSONS	KE8QC	222.88	224.48	*	ALR
WILLIAMSON	WR8M	222.54	224.14	*	

440 MHZ

ALDERSON	WF1G	449.40	444.40	*	A
BECKLEY/KINGSTON	N8FRV	449.80	444.80	*	
BUCKHANNON	N8FHE	448.10	443.10	*	L
CHARLESTON	KB4BNW	449.75	444.75	N	C
HUNTINGTON	WB8EZR	448.00	443.00	*	
JANE LEW	N8FMD	449.875	444.875	D	L
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	PL
MOUNDSVILLE	KY8O	439.25	421.25	N	V
MULLENS/HRNDN MTK	C8IT	449.00	444.00	*	LR
PARKERSBURG	WY8F	449.775	444.775	*	C
PARSONS	KE8QC	447.20	442.20	*	LREP
SO. CHARLESTON	WB8CQV	449.95	444.95	N	RL
ST. ALBANS	K8MHR	448.15	443.15	*	PLR
THOMAS	KE8QC	449.65	444.65	*	PER

SERA Celebrates It's 20th Anniversary by Pledging To Continue the Work of Keeping Our VHF/UHF Bands In The SouthEast as Trouble-Free As Possible. Amateur Coordination Works Only With The Cooperation of Repeater Owners and Users. SERA is Proud of the Support of the Amateurs in the SouthEast. You Can become a part of this 20-Year Heritage of Amateur Cooperation, by Joining SERA. If you are a Repeater Owner, as a Full Member, if you are a Repeater User, As an Associate Member.

Repeater Owners!!! Time to Renew or Join SERA Full Membership

In Case you lost your Datasheet, or didn't get one, you are invited to use this short form to join SERA as a Full Member. Two persons will receive the Repeater Journal, and your repeater(s) will be listed in our Index as Full Members.

Submit form (or copy) and check for $15.00 to SERA MEMBERSHIP, P.O. Box 215, Tobaccoville, NC 27050.

SouthEastern Repeater Association, Inc.

SERA is Coordinator for NC, SC, VA, WVA, TN, KY, GA & MS.

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR _____

City/Mtn (Max 14 Char)	Callsign	Input Freq.	Output Freq.	
				No. 1
				No. 2
				No. 3
				No. 4

Name Two Full Member Representatives to SERA (Only These Two Persons Receive The Journal.)

Name _____ Call _____ Name _____ Call _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

Phone: ( ) _____ Phone: ( ) _____

ARRL Member ( ) Yes ( ) No ARRL Member ( ) Yes ( ) No

Membership: New _____ Renewal _____ Fee Enclosed ( ) Yes ( ) No Amount: _____

Repeater Sponsor _____ Date _____

SouthEastern Repeater Association, Inc. Frequency Utilization Plans

SERA 2-Meter Frequency Utilization Plan

144.000 - 144.050..... EME(CW) (50 Khz)
144.050 - 144.060..... Propagation Beacon (10 Khz)
144.060 - 144.100..... CW & Weak Signals (40 Khz)
144.100 - 144.200..... EME & Weak Signals (100 Khz)
144.200 ..... National Calling Frequency
144.200 - 144.300..... General SSB (100 Khz)
144.300 - 144.500..... OSCAR Sub-band (200 Khz)
144.510 - 144.890..... FM Repeater Inputs (380 Khz)
144.900 - 145.000..... Weak Signals/FM Simplex (10 Khz)
145.000 - 145.100..... Packet Operation (100 Khz)
145.110 - 145.490..... FM Repeater Outputs (380 Khz)
145.500 - 145.800..... Misc. Experimental Modes (300 Khz)
145.800 - 146.000..... OSCAR Sub-bands (200 Khz)
146.010 - 146.505..... FM Repeater Inputs (495 Khz)
146.400 - 146.595..... FM Simplex (195 Khz)
146.610 - 147.390..... FM Repeater Outputs (780 Khz)
147.405 - 147.495..... FM Repeater Inputs (90 Khz)
147.510 - 147.585..... FM Simplex (75 Khz)
147.600 - 147.990..... FM Repeater Inputs (390 Khz)

70-Centimeter - 440 MHZ Frequency Utilitization Plan

420.00 - 426.00..... ATV Repeater w/421.25 Video, Control Links, Experimental.
426.00 - 430.00..... ATV Simplex w/427.25 Video Car.
430.00 - 431.00..... Digital/Packet
432.00 - 432.07..... EME
432.07 - 432.08..... Propagation Beacons
432.08 - 432.10..... Weak Signal CW
432.10 ..... Calling Frequency
432.10 - 432.125..... Mixed/Weak Signal
432.125 - 432.175..... OSCAR Inputs
432.175 - 433.00..... Mixed/Weak Signal
433.00 - 435.00..... Auxilary/Repeater Links
435.00 - 438.00..... International Satellite
438.00 - 444.00..... ATV Rpt w/439.25 Video/Rpt. Links
442.00 - 444.975..... Repeater Outputs
445.00 - 447.00..... Aux/Control Links, Simplex
446.00 ..... National Simplex Frequency
447.00 - 449.975..... Repeater Inputs

SERA 2-Meter Subband 144.1-145.5 Mhz (20 Repeater Pairs)
20 khz. spacing between channels (600 khz in/out)

144.51 - 145.11	144.65 - 145.25	144.79 - 145.39
144.53 - 145.13	144.67 - 145.27	144.81 - 145.41
144.55 - 145.15	144.69 - 145.29	144.83 - 145.43
144.57 - 145.17	144.71 - 145.31	144.85 - 145.45
144.59 - 145.19	144.73 - 145.33	144.87 - 145.47
144.61 - 145.21	144.75 - 145.35	144.89 - 145.49
144.63 - 145.23	144.77 -145.37	

SERA 2-Meter Standard Band 146-148 Mhz (68 Repeater Pairs)
15 khz. spacing between channels (600 Khz in/out)

146.010 - 146.610	146.355 - 146.955	147.675 - 147.075
146.025 - 146.625	146.370 - 146.970	147.690 - 147.090
146.040 - 146.640	146.385 - 146.985	147.705 - 147.105
146.055 - 146.655	146.400 - 147.000	147.720 - 147.120
146.070 - 146.670	146.415 - 147.015	147.735 - 147.135
146.085 - 146.685	146.430 - 147.030	147.750 - 147.150
146.100 - 146.700	146.445 - 147.045	147.765 - 147.165
146.115 - 146.715	146.460 - 147.060	147.780 - 147.180
146.130 - 146.730	146.475 - 147.075	147.795 - 147.195
146.145 - 146.745	146.490 - 147.090	147.810 - 147.210
146.160 - 146.760	146.505 - 147.105	147.825 - 147.225
146.175 - 146.775	147.405 - 146.805	147.840 - 147.240
146.190 - 146.790	147.420 - 146.820	147.855 - 147.255
146.205 - 146.805	147.435 - 146.835	147.870 - 147.270
146.220 - 146.820	147.450 - 146.850	147.885 - 147.285
146.235 - 146.835	147.465 - 146.865	147.900 - 147.300
146.250 - 146.850	147.480 - 146.880	147.915 - 147.315
146.265 - 146.865	147.495 - 146.895	147.930 - 147.330
146.280 - 146.880	147.600 - 147.000	147.945 - 147.345
146.295 - 146.895	147.615 - 147.015	147.960 - 147.360
146.310 - 146.910	147.630 - 147.030	147.975 - 147.375
146.325 - 146.925	147.645 - 147.045	147.990 - 147.390
146.340 - 146.940	147.660 - 147.060	

2-Meter Digital/Packet Simplex Frequencies

145.01 145.03 145.05 145.07 145.09
145.61 145.63 145.65 145.67 145.69

2-Meter FM Simplex Frequencies

146.40* 146.415* 146.43* 146.445* 146.46* 146.475* 146.49* 146.505*
146.52 146.535 146.55 146.565 146.58 146.595 147.51 147.525
147.54 147.555 147.57 147.585

*Permitted unless would cause interference to repeater input.

70-Centimeter 440 MHZ Repeater Pairs (120 Channels)
25 khz spacing between channels (5 mhz in/out)

447.000 - 442.000	448.000 - 443.000	449.000 - 444.000
447.025 - 442.025	448.025 - 443.025	449.025 - 444.025
447.050 - 442.050	448.050 - 443.050	449.050 - 444.050
447.075 - 442.075	448.075 - 443.075	449.075 - 444.075
447.100 - 442.100	448.100 - 443.100	449.100 - 444.100
447.125 - 442.125	448.125 - 443.125	449.125 - 444.125
447.150 - 442.150	448.150 - 443.150	449.150 - 444.150
447.175 - 442.175	448.175 - 443.175	449.175 - 444.175
447.200 - 442.200	448.200 - 443.200	449.200 - 444.200
447.225 - 442.225	448.225 - 443.225	449.225 - 444.225
447.250 - 442.250	448.250 - 443.250	449.250 - 444.250
447.275 - 442.275	448.275 - 443.275	449.275 - 444.275
447.300 - 442.300	448.300 - 443.300	449.300 - 444.300
447.325 - 442.325	448.325 - 443.325	449.325 - 444.325
447.350 - 442.350	448.350 - 443.350	449.350 - 444.350
447.375 - 442.375	448.375 - 443.375	449.375 - 444.375
447.400 - 442.400	448.400 - 443.400	449.400 - 444.400
447.425 - 442.425	448.425 - 443.425	449.425 - 444.425
447.450 - 442.450	448.450 - 443.450	449.450 - 444.450
447.475 - 442.475	448.475 - 448.475	449.475 - 444.475
447.500 - 442.500	448.500 - 443.500	449.500 - 444.500
447.525 - 442.525	448.525 - 443.525	449.525 - 444.525
447.550 - 442.550	448.550 - 443.550	449.550 - 444.550
447.575 - 442.575	448.575 - 443.575	449.575 - 444.575
447.600 - 442.600	448.600 - 443.600	449.600 - 444.600
447.625 - 442.625	448.625 - 443.625	449.625 - 444.625
447.650 - 442.650	448.650 - 443.650	449.650 - 444.650
447.675 - 442.675	448.675 - 443.675	449.675 - 444.675
447.700 - 442.700	448.700 - 443.700	449.700 - 444.700
447.725 - 442.725	448.725 - 443.725	449.725 - 444.725
447.750 - 442.750	448.750 - 433.750	449.750 - 444.750
447.775 - 442.775	448.775 - 443.775	449.775 - 444.775
447.800 - 442.800	448.800 - 443.800	449.800 - 444.800
447.825 - 442.825	448.825 - 443.825	449.825 - 444.825
447.850 - 442.850	448.850 - 443.850	449.850 - 444.850
447.875 - 442.875	448.875 - 443.875	449.875 - 444.875
447.900 - 442.900	448.900 - 443.900	449.900 - 444.900
447.925 - 442.925	448.925 - 443.925	449.925 - 444.925
447.950 - 442.950	448.950 - 443.950	449.950 - 444.950
447.975 - 442.975	448.975 - 443.975	449.975 - 444.975

70-Centimeter Digital/Packet Simplex Frequencies

430.05 430.15 430.25 430.35 430.45 430.55 430.65 430.85 430.95
Note: 430.75 mhz is reserved for ATV Repeater Inputs

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SouthEastern Repeater Association, Inc. Frequency Utilization Plans

SERA 220 MHZ Frequency Utilization Plan

222.00 - 222.05..... EME - (Earth/Moon/Earth) (50 Khz)
222.05 - 222.06..... Propagation Beacons (10 Khz)
222.06 - 222.10..... Weak Signal CW/Experimental (40 Khz)
222.15 - SSB..... Calling Frequency
222.10 - 222.20..... SSB (100 Khz)
222.20 - 222.35..... Repeater Control/Link Frequencies (150 Khz)
222.35 - 223.45..... Hi Speed Digital with 222.40 Center (100 Khz)
222.45 - 222.46..... Propogation Beacons (10 Khz)
222.46 - 222.49..... EME/Weak Signal/Experimental (30 Khz)
222.49 - 222.50..... Guard Channel (10 Khz)
222.50 - 223.38..... Repeater Inputs (20 Khz Channel Spacing)
223.38 - 223.42..... Guard Channel (10 Khz)
223.42 - 223.64..... FM Simplex (Voice or Digital) (220 Khz)
223.64 -223.66..... Guard Channel (10 Khz)
223.66 - 223.78..... Digital Channels 20 khz spaced (120 Khz)
223.78 - 223.80..... Guard Channel (10 Khz)
223.80 - 223.90..... Hi Speed Digital with 223.85 Center (100 Khz)
223.90 - 223.92..... Guard Channel (10 Khz)
223.92 - 224.98..... FM Repeater Outputs (45 Channels)
224.98 - 225.00..... Guard Channel (10 Khz)

220 MHZ Repeater Pairs (1.6 MHZ in/out)
20 khz. spacing between channels (45 Channels)

222.50 - 224.10	222.80 - 224.40	223.10 - 224.70
222.52 - 224.12	222.82 - 224.42	223.12 - 224.72
222.54 - 224.14	222.84 - 224.44	223.14 - 224.74
222.56 - 224.16	222.86 - 224.46	223.16 - 224.76
222.58 - 224.18	222.88 - 224.48	223.18 - 224.78
222.60 - 224.20	222.90 - 224.50	223.20 - 224.80
222.62 - 224.22	222.92 - 224.52	223.22 - 224.82
222.64 - 224.24	222.94 - 224.54	223.24 - 224.84
222.66 - 224.26	222.96 - 224.56	223.26 - 224.86
222.68 - 224.28	222.98 - 224.58	223.28 - 224.88
222.70 - 224.30	223.00 - 224.60	223.30 - 224.90
222.72 - 224.32	223.02 - 224.62	223.32 - 224.92
222.74 - 224.34	223.04 - 224.64	223.34 - 224.94
222.76 - 224.36	223.06 - 224.66	223.36 - 224.96
222.78 - 224.38	223.08 - 224.68	223.38 - 224.98

220 Mhz. FM Simplex Frequencies

223.44	223.46	223.48	223.50	223.52	223.54	223.56	223.60
223.62	223.64	223.66	223.68	223.70	223.72	223.74	223.76
223.78	223.80	223.82	223.84	223.86	223.88	223.90	

220 Mhz. Packet/Digital Simplex Frequencies & Channels

223.40	223.42	223.58	223.66	223.68	223.70	223.72
223.74	223.76	223.78				

Hi-Speed Digital Channels

223.35 - 223.45/223.40 Center AND 223.80 - 223.90/223.85 Center

SERA 10 Meter FM Frequency Utilization Plan

29.300 - 29.500..... OSCAR (satellites) (200 Khz)
29.520 - 29.580..... Repeater Inputs (600 Khz)
29.600 ..... Simplex
29.620 - 29.680..... Repeater Outputs (600 Khz)

10M Repeater Pairs (100 Khz in/out) (20 Khz Chan. Spacing

29.520 - 29.620	29.56 - 29.66
29.540 - 29.640	29.58 - 29.68

SERA 6 Meter Frequency Utilization Plan (to be reviewed Later In 1991)

50.000 - 50.100..... CW and Beacons
50.060 - 50.080..... Auto Contr.Beacons
50.100 - 50.600..... SSB & AM
50.110 ..... SSB DX Calling Frequency
50.200 ..... SSB National Calling Frequency
50.400 ..... AM Calling Frequency
50.600 - 51.000..... Experimental/Special Modes
50.700 ..... RTTY Calling Frequency
50.800 - 50.980..... R/C Model Radio Control
51.000 - 51.100..... Pacific DX Window
51.100 - 52.000..... FM Simplex
52.000 - 52.050..... Pacific DX Window
52.000 - 54.000..... FM Repeater and Simplex

6-meter Repeater Pairs (1 mhz in/out)
20 khz spacing between channels

52.01 - 53.01	52.33 - 53.33	52.71 - 53.71
52.03 - 53.03	52.35 - 53.35	52.73 - 53.73
52.05 - 53.05	52.37 - 53.37	52.75 - 53.75
52.07 - 53.07	52.39 - 53.39	52.77 - 53.77
52.09 - 53.09	52.41 - 53.41	52.79 - 53.79
52.11 - 53.11	52.43 - 53.43	52.81 - 53.81
52.13 - 53.13	52.45 - 53.45	52.83 - 53.83
52.15 - 53.15	52.47 - 53.47	52.85 - 53.85
52.17 - 53.17	52.55 - 53.55	52.87 - 53.87
52.19 - 53.19	52.57 - 53.57	52.89 - 53.89
52.21 - 53.21	52.59 - 53.59	52.91 - 53.91
52.23 - 53.23	52.61 - 53.61	52.93 - 53.93
52.25 - 53.25	52.63 - 53.63	52.95 - 53.95
52.27 - 53.27	52.65 - 53.65	52.97 - 53.97
52.29 - 53.29	52.67 - 53.67	52.99 - 53.99
52.31 - 53.31	52.69 - 53.69	

6 Meter FM Simplex Frequencies

52.49 52.51 52.525

SERA 33 cm Frequency Utilization Plan (to be reviewed In late 1991)

902.00 - 902.80..... SSTV, FAX, ACSSB, Experimental
902.80 - 903.00..... Reserved - EME CW Expansion
903.00 - 903.05..... EME Exclusive
903.07 - 903.08..... CW Beacons
903.10 ..... CW, SSB Calling Frequency
903.40 - 903.60..... Cross band linear translator inputs
903.60 - 903.80..... Cross band linear translator outputs
903.80 - 904.00..... Experimental Beacons Exclusive
904.00 - 906.00..... Digital Communications
906.00 - 907.00..... Narrow band FM Simlpex (25 khz channels)
906.50 ..... National Calling Frequency
907.00 - 910.00..... FM Repeater Inputs
910.00 - 916.00..... ATV
916.00 - 918.00..... Digital Communications
918.00 - 919.00..... Narrow band FM Control links/Remote bases
919.00 - 922.00..... FM Repeater Outputs
922.00 - 928.00..... Wide band experimental, ATV, Simplex spread spectrum

SERA 33 cm FM Repeater Pairs (12 mhz in/out)
100 khz spacing between channels

(Note: SERA will coordinate the 33 cm band repeater pairs with 100 khz spacing between pairs until that portion fills, then 50 khz and finally 25 khz split spacing will be utilized in the future.

907.10 - 919.10	908.10 - 920.10	909.10 - 921.10
907.20 - 919.20	908.20 - 920.20	909.20 - 921.20
907.30 - 919.30	908.30 - 920.30	909.30 - 921.30
907.40 - 919.40	908.40 - 920.40	909.40 - 921.40
907.50 - 919.50	908.50 - 920.50	909.50 - 921.50
907.60 - 919.60	908.60 - 920.60	909.60 - 921.60
907.70 - 919.70	908.70 - 920.70	909.70 - 921.70
907.80 - 919.80	908.80 - 920.80	909.80 - 921.80
907.90 - 919.90	908.90 - 920.90	909.90 - 921.90
908.00 - 920.00	909.00 - 921.00	

Portable Repeaters

The SERA Board discussed the merits of trying to coordinate a portable repeater, and listing it on the database. After much discussion, it was agreed that this would be impossible.

It was suggested that owners of portable repeaters, who stated that they were for "Emergency use only" should choose frequencies which would not interfere with existing repeaters nearby. It was also suggested that Emergency portable repeater owners should cooperate with repeater owners in the area, to allow them to be aware of the portable repeater and its frequency, so that in cases of emergency, full assistance from full-time repeater owners could be expected, and no unexpected interference.

Some suggestions included putting the local Emergency portable repeater on a frequency of a local full-time repeater, with the cooperation of the full-time repeater owner. During emergency times, the full time repeater could be turned off when the portable repeater would be of more benefit for communications during the emergency.

The Board agreed that the owner of the emergency portable repeater would be responsible to see that the machine was operated in a responsible manner so as not to cause harmful interference to existing system, and that contingency plans should be worked out for use of the special repeater during emergencies.

SERA Financial Report
— by Ray Adams, N4BAQ
SERA Treasurer

SouthEastern Repeater Association, Inc.

Calendar years 1986, 1987, 1988, 1989 and 1990

Dues	$6/$15	$6/$15	$6/$15	$6/$15	$6/$15
REVENUES	1986	1987	1988	1989	1990
Advertising	$ 6,595.75	$6,611.50	$ 8,372.00	$10,838.50	$13,606.30
Associate membership dues	12,559.00	13,412.00	13,617.50	13,826.25	10,861.50
Full membership dues	4,382.25	4,070.25	5,972.50	5,336.00	8,122.50
Decals	70.50	31.00	116.50	31.00	123.00
Postage - includes Hot - P	266.50	273.50	180.00	238.50	236.50
Interest	273.18	401.80	526.52	277.26	432.31
Hats	123.37	63.00	47 50	-0-	-0-
Contributions	182.00	102.00	45.00	336.40	100.00
Other	83.64	16.90	12.00	196.25	224.00
	$24,536.19	$24,981.95	$28,889.52	$31,080.16	$33,706.11
EXPENSES					
Journal mailing	$ 3,378.48	$ 2,511.95	$ 2,777.70	$ 3,807.79	$ 3,145.14
Journal production	12,783.43	16,553.59	20,703.90	20,869.73	18,532.47
Miscellaneous	-0-	120.13	199.56	153.75	147.84
Travel and meetings	1,428.90	2,051.22	1,241.72	2,424.98	1,469.98
Office expenses	137.87	171.10	367.96	1,051.70	728.97
Ammortization of office machines	448.00	875.63	862.24	1,125,90	1,322.52
Postage - other than journal	387.44	721.06	1,153.74	1,696.36	1,735.72
Printing - other than journal	186.96	848.63	1,115.57	515.12	1,350.43
Telephone	576.38	442.37	995.83	494.04	753,91
	$19,327.46	$24,295.68	$29,418.22	$32,139.37	$29,186.98
REVENUE OVER (UNDER) EXPENSES	$ 5,208.73	$ 686.27	($ 528.70)	($ 1,059.21)	$4,519.13
Balances, beginning of year					
Expenses advanced	$ 950.00	$ 900.00	$ 900.00	$ 900.00	$ 900.00
Invested in office machines	896.00	2,571.63	1,696.00	3,026.00	3,203.60
Cash in bank	2,107.05	5,690.15	7,252.05	5,393.35	4,156.54
	$ 3,953.05	$ 9,161.78	$ 9,848.05	$ 9,319.35	$ 8,260.14
EQUITY TO ACCOUNT FOR	$ 9,161.78	$ 9,848.05	$ 9,319.35	$ 8,260.14	$12,779.27
Less: Expenses advanced	$ 900.00	$ 900.00	$ 900.00	$ 900.00	$ 900.00
Invested in office mach	2,571.63	1,696.00	3,026.00	3,203.60	2,749.00
	$ 3,471.63	$ 2,596.00	$ 3,926.00	$ 4,103.60	$ 3,649.00
CASH IN BANK	$ 5,690.15	$ 7,252.05	$ 5,393.35	$ 4,156.54	$ 9,130.27

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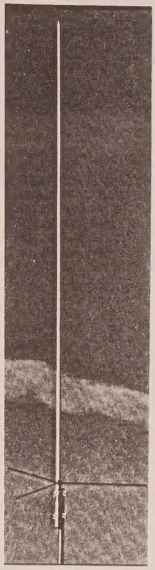

◀ GPX-2010

Dual-Bander 146/446MHz
The highest gain 146/446MHz Dual-Bander in the World.

Wave Length: 146MHz 5/8 W x 5
446MHz 5/8 W x 12
Gain: 146MHz 9.5dB
446MHz 13.2dB
Impedance: 50 ohms
VSWR: 1.5:1 or less
Max. Power: 200 watts
Length: 23' 4"
Weight: 7 lbs 14 ozs.
Mounting Mast Dia: 1¼-2½"
Connector: UHF

Includes Guy Wires

$259.00
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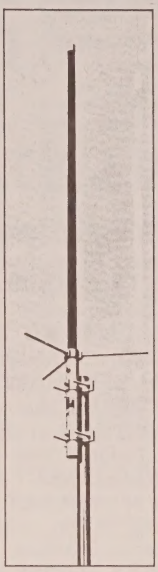

◀ CA-2x4Z

Dual-Bander 146/446MHz
Base-Repeater Antenna
The Highest Gain 146/446 Dual-Band Antenna in the World.

Gain: 146 8.2dB, 446 11.5dB
Impedance: 50 ohms
VSWR: Less than 1.5, 144-148MHz, 440-450MHz
Max. Power: 200 watts
Length: 15' 11"
Weight: 5 lbs. 3 ozs.
Mounting Mast Dia: 1¼-2½"
Connector: N-Type
Construction: Heavy Duty Fiberglass

$165.00
Plus Shipping

◀ CA-2x4FX

Dual-Bander 146/446MHz
Base-Repeater Antenna

Gain: 146 4.5dB, 446 7.2dB
Impedance: 50 ohms
VSWR: Less than 1.5:1, 144-148, 440-450
Max. Power: 200 watts
Length: 5' 11"
Weight: 2 lbs. 12 ozs.
Mounting Mast Dia: 1½-2¼"
Connector: UHF
Construction: Heavy Duty Fiberglass

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All Antennas Shipped via UPS Only, in Sturdy Oversized Tubes. Please Add $9.00 Shipping Charge Per Antenna. NO Credit Cards. For CODs add $4.00 N.C. Residents Add 5% Sales Tax.

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LARSEN MOBILE ANTENNAS 2-METERS; 220 MHZ; 450 MHZ

MAGNETIC MOUNT - with coax; Conn., Coil, Whip and Mount (Complete)
"LM" ..... $46.95 "NMO" $48.95

TRUNK LIP MOUNT-with coax; Conn., Coil, Whip and Mount (Complete)
"LM" ..... $43.95 "NMO" $46.95

TRUNK MT "L" BRACKET-w/coax; Conn., Coil, Whip & Mount (Complete)
"LM" ..... $41.95 "NMO" $44.95

PERM. MOUNT - 3/4" Hole; w/coax, Conn., Coil, Whip and Mount (Complete)
"LM" ..... $39.95 "NMO" $41.95

2M & 220 Antennas are 5/8-wave with 3 db gain.
450 Antennas are 5/8 over 1/2 Collinear with 5 db gain.
BLACK COIL & WHIP - Add $4.00. BLACK "L" BRAC. - Add $1.00

DUAL BAND 2M/440 ANTENNAS "NMO" OR "PO" - 2.4 & 4 db gain.
Coil & Whip Only - $35.95 (Mount Extra) Black Coil - Add $1.00

Individual Prices on Larsen Antenna Parts

COILS: Work with Mounts and Whips 2M & 220

"LM" 2M & 220 ..... $21.00 440 (coil & whip) $28.00
"NMO" 2M & 220 ..... $22.00 440 (coil & whip) $30.00
"NMO" 27-34 Mhz ..... $24.00 Dual-Band Coil/whip $35.95
BLACK coils avail on 2M & Dual Band only – add $1.00

MOUNTS: (complete with conn.; mount and coax)

MAGNETIC (MM) - "LM" ... $25.00 "NMO" ..... $25.00 "PO" $26.00
TRUNK LIP (TLM) - "LM" .... $21.00 "NMO" $23.00
PERMANENT (K) - "LM" .... $11.95 "NMO" ..... $14.95 "PO" $19.95

NEW! Black Round Magnetic Mount .. (NMO) $28.00 (LM) $27.00

MOUNTS: (No coax or connector) (B)

"LM" ..... $4.50 "NMO" .... $6.95 "NLA" ..... $5.95 "PO" $8.95

1/4-WAVE (Q) Whips with Mounting Screws (Require Mobile Mount)

"LM" Stainless Steel ..... $4.50 "LM" Black (teflon coat) $5.95
"NMO" w/Gray Mt. ..... $8.95 "NMO" Blk. (teflon coat) $11.95
"NMO" Chrome Mt. $9.95

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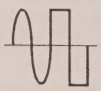

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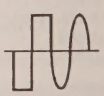

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A Guest Editorial

No Code: The Future

-By Special Permission From The "Communicator", Newsletter of the Mountain ARC, George Hinds, N8CIX, Editor.

-By P.A. Stewart, NX0G

By now I'm sure everyone has envisioned what the "no-code" ruling recently passed by the FCC will bring to the Amateur radio community. Depending upon where your perception lies, between optimism and pessimism, we can anticipate anything from the trivial influx of some very talented individuals to a complete takeover of all Amateur bands above 30 Mhz by the Citizen Band community.

The only reality associated with the no-code ruling is that change is coming. Our own government (FCC) along with our national representative in these matters (ARRL) seem to think there is some merit to this monumental change. Let's ignore the worse-case scenerios for a moment and attempt to get a grasp on what positive attributes could be gained with the change.

During the course of the past few years, spectrum congestion has become a major issue for most radio services. As we all know too well, they're out to get us...or at least our frequencies. Cellular and trunking techniques have assisted in effective spectrum usage in other services, while the Amateur radio community is at a standstill when it comes to solving frequency congestion in high-use metro areas.

It is possible that a large influx of technically qualified Amateurs would (1) increase activity in under-utilized bands and, (2) in the congested areas of the country, prompt an impetus for technological improvements to accommodate all the increased traffic on already saturdated frequencies. Keep in mind that the ongoing battle to retain the lower 2 Mhz of the 220 Mhz band was brought about due to the lack of use throughout most of the country. I suspect that it is high time we did something to bolster our ranks, and maybe no-code is the answer. We can't continue with our knee-jerk response to the ever-present threat aimed at taking pieces of the Amateur frequency allocations.

There will be problems associated with the change. It would be naive to think otherwise. How severe these problems will be remains to be seen. Instead of wringing our hands in premature submission to demise, it could be possible to actually train the newcomers, whether they be the "dreaded" CB'er, an ambulance driver, or electrical engineer. None of us were born an Amateur radio person. All of us got where are via different avenues, but ended up here nonetheless. It wasn't by magic either; someone or several people helped along the way. Let's all attempt to be one of those helpful individuals and let the new Technicians know we are there.

Granted, some lids will get through this effort unchanged....so what's new? They (lids) all tend to congregate in the same places and the repeater trustees and others who allow the activities that are contrary to rules, regulations, and good communication practice are at least as guilty as the offenders. Let's take charge of our own destiny and abandon the submissive capitulation.

There are some extremely brilliantand interesting people who are not members of our fraternity. Listening to the prevalent anti-change rhetoric, I wonder how so many Amateurs have apparently lost sight of the "real world". We can't stop some things from changing regardless of how strongly we object. The no-code issue is one of these things. If we could harness just half of the energy spent in complaining and grieving over the inevitable influx of newcomers, and direct it towards shaping the future for our mutual survival, there wouldn't be much of an issue to reconcile.

Congress Moves To Protect Amateur Radio

-Via Westlink Report

On the first day of the new 102nd Congress, a bill to prevent the loss of radio spectrum by the Amateur Radio Service was introduced by Rep. Jim Cooper (D-TN). Cooper is a member of the House Subcommittee on Telecommunications and Finance, where the bill is likely to be referred for Consideration. The bill, The Amateur Radio Spectrum Protection Act of 1991, is designated as H.R. 73.

The Legislation proposes that "the FCC shall not diminish existing allocations of spectrum to the Amateur Radio Service after January 1, 1991. The FCC shall provide equivalent replacement spectrum to the ARS for any frequency reallocation after January, 1, 1991.

In the findings portion of his bill, Rep. Cooper spoke many good words about the Amateur Radio Service, describing their free public service, and dedication to providing valuable communications during times of emergency. He noted that the FCC had already taken over 100 Mhz. of spectrum from the Amateurs.

Amateurs are asked to write their congressmen and strongly urge them to co-sponsor the bill. Be sure to mention H.R. 73 and appeal to the public benefit Amateur Radio provides at no cost, benefits to young people and education in the sciences and technology

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Scotchkote Electrical Coating

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15 Oz. can Scotchkote coating . . . $10.00

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RARSfest '91

19th Annual Hamfest and Computer Fair

Sunday April 14, 199

8 AM-4 PM

Jim Graham Building, N.C. State Fairgrounds
Raleigh, NC

Featuring:

- **RARSfest Social Sat. Night**
  A welcoming party will be held from 7-10 PM in the large meeting room inside the hamfest building. Food, drinks, prizes for those present.

- **Amateur Radio Exams**
  By pre-registration until April 10. Exams will be held in the Holshouser building starting PROMPTLY at 10:00 AM. Send completed form 610, copy of current licence, code/theory certificates (CSCEs). If applicable, indicate the highest class of license you desire to be tested for and a check or money order for $5.25 made out to "RARS-VE" to: *Vince Yakamavich, AA4MY, 220 Carriage Trail, Raleigh, NC 27614 (919) 847-8512 (Exam information only, please)*

- **Special Interest Meetings**
  Q.C.W.A., NAVMARS, NTS, AREA, and other meetings. Times will be announced at the Hamfest.

- **CW Contest**
  Compete for Prizes.

- **Homebrew Contest**
  Show your best handywork in home-built projects from antennas, computers, test gear or radio equipment. Prizes awarded.

- **Hamfest Prizes**
  Hourly attendance prizes drawn during the day. Pre-registration prize drawn 10 AM Hamfest prizes drawn 3 PM. You need not be present to win.

- **Fleamarket**
  110,000 sq ft. indoor space! Regular fleamarket and vendor area space: one 8' table with 2 chairs is $9.00. Five or more tables are $8.00 each. 120-Volt AC power is $18.00 per drop.

- **Commercial Dealer Space**
  Booths and tables are available in designated dealer areas. Contact: *Al Mullis, K4GOE, 7001 Rainwater Rd. Raleigh, NC 27615 (919) 850-0641 (leave message with the best time to return call)*

Come and be a part of RARSfest '91, an ARRL sanctioned hamfest.

Pre-registration Form *Print Clearly, include S.A.S.E. Make checks payable to RARS*

Name:_____ Call:_____

Address:_____

City:_____ State:____ Zip:_____

____Pre-registration tickets @ $5.00 ea _____

____Tables 1-4 with 2 chairs @ $9.00 ea _____

____Tables 5 + @ $8.00 ea _____

____120-Volt AC power @ $18.00/drop _____

Total _____

Mail Pre-registration to: **Rollin Ransom, NF4P Rt.5, Box 267 Zebulon, NC 27597**

REPEATER JOURNAL VE/VEC EXAMINATION SCHEDULE

TENNESSEE

Blount County, Maryville WCARS-VEC

Second Monday on each even month. Sked: Feb.11, Apr.8, Jun.10, Aug.12, Oct.14, & Dec.8, 1991. 7:00 P.M. at St. Andrews Church Hall, W. Broadway, Maryville. Walk-ins normally accepted. Contact: Carrol Peabody, W4PCA (615) 982-5839. Talk-in: 146.85.

Carter County WCARS-VEC

Walk-ins accepted if registered by 8:45 a.m. Exams some Saturdays at 9:00 a.m. Contact Joe Hopkins, K4BKI, (615) 543-4022 for schedules.

Chattanooga WCARS-VEC

Exams held at Red Cross Building. Pre-registration required 2 days in advance. For scheduling information, contact Bruce Adams, KA5DLV (615) 899-9687. Talk-in: 146.79 & 224.78.

Cleveland WCARS-VEC

Quarterly Exams at STAR Club Building. Saturday Afternoons at 3:00 p.m. Sked: Mar.9, Jun.8, Sep.14, and Dec.14. Walk-ins normally accepted. Contact: Russell E. Lawson, WB4LCB, 802 SE 20th St. Cleveland, Tn. 37311. (615) 476-8476. Alternate contact, Melba Randolph, KB4HOW, 4610 Mouse Creek Rd., Cleveland, Tn. 37311. (615) 476-9267. Talk-in: 147.18 & 146.91.

Fentress County WCARS-VEC

Walk-in exams scheduled some Saturdays at 6:00 p.m. For information contact: Mike Ledbetter, AB4BX, (615) 879-8626 or alt: Steve Qualls, KJ4HT, (615) 879-7517. Talk-in: 147.09.

Greeneville WCARS-VEC

Exams on 4th Saturday of each odd-numbered month at Roby Adult Center on College St. Sked: Jan.26, Mar.23, May 25, Jul.20, Sep.28 and Nov.23. Walk-ins normally accepted. Contact: Jack Creed, K4EPC, 826 Rosebud Dr., Greeneville, Tn. 37743. (615) 638-7056. Talk-in: 147.39 & 224.94..

Henry County WCARS-VEC

Walk-in exams held at Henry County High School, Paris. Contact Mackie Gallimore AA4YF, (901) 247-5489 for future schedules. Alt. Les Merrell, KQ4F, (901) 642-5966. Talk-in: 147.165.

Jasper WCARS-VEC

Walk-in exams held Sunday afternoons at Jasper Public Library. For schedules, contact: Charles Wooten, KD4XX, (615) 942-5116. Talk-in: 145.19.

Knoxville WCARS-VEC

Third Saturday of each month normally. Upgrades only. Novice testing on request from NY4A, N4BAQ, ND4F, WA4GZE, N4IJL, W4MHA, KM4SX, WA4TKN and others. Pellissippi State Tech. Room B-129. (except Hamfest dates) Pre-registration required. Contact: Ray Adams, N4BAQ, 4325 Felty Dr., Knoxville, Tn. 37918. (615) 688-7771. Alt. Rich Slover, ND4F, 2700 Waverly St. #4, Knoxville, Tn. 37921, (615) 539-4821. Sked: Jan.26 (Sevierville Swapfest), Feb.10, Mar.16, Apr.2 (Oak Ridge Hamfest), June 1 (Knoxville Hamfest) Jun.15, Jul.20, Aug.17, Sep.21, Oct.19, Nov.16 and Dec. 21. Talk-in: 147.30 & 224.50

Loudon County, Loudon WCARS-VEC

Fourth Saturday of each even month, at Third National Bank on U.S. 321 E. (321 is Exit 81 on I-75, then East to Bank) Walk-ins normally accepted. Sked: Feb.23, Apr.27, Jun.29, Aug.24, Oct. 26, and Dec. 21. Contact: Bob Gray, KE4SK (615) 458-6115. Talk-in: 145.17.

McMinn County WCARS-VEC

Exams on 2nd Monday evening at 8:00 p.m. of each odd numbered Month, at Athens Municipal Building Council Chambers. Walk-ins accepted. Sked: Mar.11, May 13, Jul.8, Sep.9 and Nov.11, 1991. Contact Ben C. Dickson, W4NEG, (615) 745-2198. Alt. Evan Ray, WA4PNI. (615) 263-9300. Talk-in: 145.31.

Metropolitan Memphis Area ARRL-VEs

Exams on First Saturday in August and December at 9:00 a.m. at State Technical Institute in Memphis. Exams also at "Memfest '91" in Oct. at Mid-South Fairgrounds. Pre-registration for all sessions within 2 days of exams. Contact Harry Simpson W4MI at 1830 Macaulay Ave., Memphis, Tn. 38127. Call (901) 357-8148.

Morgan County WCARS-VEC

Second Saturday of each odd month at Joyner Volunteer Fire Dept., Coalfield. Sked: Nov.10, 1990 and Jan. 12, Mar.9, May 11, Jul.13, Sep.14, and Nov.9, 1991.. Walk-ins normally accepted. Contact: Paul Seavers, AA4UP (615) 435-6052. Talk-in: 146.745.

Roan County WCARS-VEC

Second Saturday of each even month at Pond Grove School, Rockwood. Sked: Dec.8, 1990 and Feb.9, April, Jun.13, Aug.10, Oct.12, and Dec.14, 1991. Walk-ins normally accepted. Contact: Richard Spillee, AA4KS, (615) 354-4281. Alt. Bill Smelcer, KA4AAD, (615) 882-9070. Talk-in: 147.015.

WEST VIRGINIA

Bluefield W5YI-VEC

Exams (Novice thru Extra) second Saturday each Quarter, Feb., May., Aug., and Nov. 9:00 a.m. Bluefield State College. Walk-ins are preferred. Contact: Don Williams, WA4K, (Bluefield VE Team) (703) 326-2411 or (703) 326-3338.

Beckley, W5YI-VEC

The Smoke Signal Ridge VEC Team, sponsored by the ARA, Northern Div., will conduct Novice through Extra tests at the Mine Safety & Health Admin. Academy near Beckley, adjacent to the Raleigh County Airport. Exit 125 on I-64. Tests begin promptly at 6:00 p.m. in Rooms C108 & C109. Walk-ins will be accepted, bring completed form 610. Exam dates: Mar.,16, Jun.15, Sep.,21 and Dec.14.

Charleston, W5YI-VEC

The Kanawha Valley group gives Novice thru Extra class exams at 9:00 a.m. 3rd Saturday of each month, at Holy Trinity Catholic Church in Nitro. Walk-ins are accepted. Talk-in on 40-00 St. Albans repeater.

VIRGINIA

Danville W5YI-VEC

Exams held last Tuesday of each month January through November at Danville Community College, Hill Building. Contact Jim Bond, AB4FZ, (804) 799-2422 for further information.

Roanoke WCARS-VEC

Walk-in exams are held at Hollins College. For info, and 1991 dates, contact Fred L. Horton, KZ4Y, 4024 Oakland Blvd., Roanoke, Va. 24012. (703) 366-6266. or Ben Giavaden, N4BG, Rt. 7, Roanoke, Va. 24022, (704) 344-7000. Novice testing on request. Talk-in on 146.985.

Norfolk, Va. Beach, Hampton Roads, Portsmouth, Chesapeake, Wmsburg.

All exams: Walk-ins are ok, but contact person would like to know in advance you are coming. Bring original license and photo copy and any license upgrade certificates. See individual exams for Contact person.

ARRL EXAMS - Make check for $5.25 payable to ARRL/VEC. For W5YI Exams - Make check for $5.25 to Bill Verebely/ VEC for Chesapeake DX Assn Exams, or to HRRA/VEC for Hampton Roads RA exams.

Southeastern Virginia Schedule

HAMP.RDS EXAMS W5YI/VEC contact Bill Runyon, N4BDH, 487-8611. Sked: Feb.16, May 18, Aug.17, Nov.16.

PORTSMOUTH ARC ARRL/VEC contact Art Thiemens, AA4AT 484-2857. Sked: May 4, Nov.2.

VIRGINIA BEACH ARC ARRL/VEC contact Ed Robinson, WD4GDY, 468-0866. Sked: Jun.1, and Dec. 7. Special Session Sep.22 at ARRL Convention and Hamfest, contact Ed Brummer, W4RTZ, 898-8031.

CHESAPEAKE DX ASSN, W5YI/VEC. Contact Bill Verebely, KC4YX, 424-4764. Sked: Jul.,13.

S.PENINSULA ARC, ARRL/VEC. Contact Ed Brummer, W4RTZ, 898-8031. Sked: Mar.2.

WILLIAMSBURG AREA ARC, ARRL/VEC. Contact Andrew Swanson, WJ4X, 253-2811. Sked: Apr.6, Oct.12.

NORTH CAROLINA

Asheville WCARS-VEC

Exams on Saturday Jan.26, Apr.27, July 27th (At Hamfest), and Oct. 26, at 9:00 a.m. at Health and Social Services Bldg. Walk-ins normally accepted. Contact Garland Lance, NC4N, 854 Sand Hill Rd., Asheville, NC 28806 (704) 667-3758. Talk-in: 146.91 & 224.60.

Asheville WCARS-VEC

Second Saturdays: Sked: Mar.9, Jun.11, Sep.14, and Dec. 14. Exams held at 9;00 a.m. at Leicester Vol. Fire Dept., 9.3 mi. N. of Patton Ave. on Hwy 63. Walk-ins normally accepted. Contact Larry York, WB4PLA, Rt. 4, Box 420 Martin Br. Rd., Leicester, N.C. 28748. (704) 683-1400. Talk-In: 146.91 & 224.60.

New Bern WCARS-VEC

Walk-in exams held at New Bern High School. Sked: Aug.24, Oct.26 and Dec.28, 1991. For info contact: Andy Griffith, W4ULD, 203 Lord Granville, Dr., rt.2, Morehead City, NC 28857. (919) 726-5924.

Raleigh and Durham

Raleigh ARS and Durham FMA VEs conduct examinations alternating monthly between Durham and Raleigh. Pre-registration generally requested, but walk-ins are accepted until 30 minutes prior to exam time. Contact: AA4MY or KY4Y for further information and schedules.

Yadkinville ARRL-VEC

Walkin exams, 2nd Saturday of every month, 9:00 a.m. at Yadkinville Elementary School. For info, contact Fred Pepper, N4UAN, Rt. 6, Box 574, Yadkinville, Nc 27055. (919) 679-8954.

Salisbury W5YI-VEC

Salisbury VE team has Exams on 2nd Sunday from 1:00 to 4:00 p.m. monthly at the Emergency Operations Bldg. For information contact: Isabelle Ledford, AB4UX, P.O. Box 826, Cooleemee, N.C. 27014. (704) 284-2414.

GEORGIA

Augusta, ARRL-VEC

Exams conducted at Fort Gordon, Bldg.

(Continued on Next Page)

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215WB	144-148 MHZ 15 EL 2.2 WAVEL	104.95
225WB	220-225 MHZ 15 EL 2.2 WAVEL	99.95
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A-3S	20/15/10 MTR 3EL 14'BOOM 8 db	299.95
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A-4S	20/15/10 MTR 3EL 18'BOOM 8.9db	379.95
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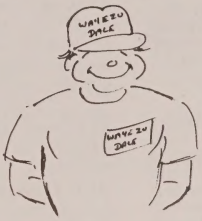

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VE/VEC Examination Schedule

(*Continued from Last Page*)

31424 at 9:00 a.m. Sked: Feb.9, May 11,Aug.10, Nov.9. Contact: Ace Norton, NA4I (404) 798-5060.

Augusta WCARS-VEC

Exams on 2nd Saturday of each Odd numbered month at Sue Reynolds Community Center. Code tests at 10 a.m. Written elements at 11 a.m. Walk-ins normally accepted. Sked: Mar.9, May 11, Jul.12, Sep.13 and Nov.8. Contact Jim Abercrombie, N4JA, 2360 Travis Pines Rd., Augusta, Ga. 30906. (404) 790-7802. Talk-In: 145.49.

(Metro Atlanta Area Examinations)

Lawrenceville W5YI-VEC

Exams scheduled 1st Sunday each month at 2:00 p.m. at Jackson EMC, 461 Swanson Rd., Lawrenceville. Walk-ins accepted. Contact Duane Reynolds, WB2YAD, 962-9582.

Peachtree City CA-VEC

Exams scheduled 1st Saturdays at 12:00 noon at Peachtree City City Hall. Take exit 12 off I-85 and go South on Hwy 74. Walk-ins ok. Contact Mike Murphy, KB4KZY, 487-7494.

Stone Mountain CA-VEC

Schedule is 2nd Saturday of each month, at 8:30 a.m. at Stone Mt. Methodist Church, 5312 W. Mt. St. Walk-ins accepted. Contact Hal Martin, KI4RD, 469-6430. Fee $4.00.

Southern Tech CA-VEC

Exams on 3rd Saturday each month. Walk-ins accepted. 9:00 a.m., at Southern Tech, Room 209, Classroom Bldg.. (Exit 112 from I-75) Contact Hal Martin, KI4RD, 469-6430.

DeKalb County CA-VEC

Walk-in exams held 4th Thursday of the month at 7:00 p.m. at DeKalb Co. E.Precinct, Lithonia. Contact Harvey Pearson, WB4PHF, 972-5061.

North Atlanta ARRL-VEC

Walk-ins accepted for exams held on 4th Sunday each month at 2:30 p.m. at Church of the Atonement on Highpoint Rd. Contact Neil Foster, KC4MJ, 449-3340.

Dalton WCARS-VEC

Fourth Saturday of each even numbered month at Unity Methodist Church at 4:00 p.m. Pre-registration-send 610 to arrive no later day before exam. Contact Bert L. Coker, N4BZJ, 1320 Michael Dr., Tunnelhill, Ga. 30755. (404) 673-2214. Alt. Contact, Harold W. Jones, N4OTC, P.O. Box 211, Rocky Face, Ga. 30740. (404) 278-7077. Talk-in: 147.315 & 224.74.

KENTUCKY

Hazard WCARS-VEC

Examinations usually held on some Tuesdays at 7:00 p.m. at Ray G. Eversole School. Walk-ins normally accepted. For exact dates and additional information, contact John Farler, K4AVX, (606) 436-5354.

Middlesboro WCARS-VEC

First Saturday at 10:00 a.m. of each even numbered month at Middlesboro Library. Sked: Feb.2, Apr.6, Jun.1, Aug.3, Oct.5 and Dec. 7. Walk-ins normally accepted. Contact Wade Bevins, WA4OBL (606) 337-8165, or alternate James Dyke, KZ8A, (615) 869-4453. Talk-in: 146.775.

SOUTH CAROLINA

Charleston WCARS-VEC

Exams third Saturday of each odd-numbered month at 9:00 a.m. at Trident Tech College. Sked: Feb.23 (Charleston HF Site), May 18, Jul.20, Sep.21, and Nov.16. Walk-ins normally accepted. Contact: Werner E. Dolder, AA4IX, 327 Heber Rd., Summerville, SC 29483, (803) 873-9465.

Columbia, WCARS-VEC

Walk-in exams will be conducted at the Red Cross Bldg., Bull Street and Harden Ext., in Columbia on Feb.16, Apr.20, Jun.15, Aug.17, Oct.19, and Dec.21. For info contact: Ray Rogers, N4WR, P.O. Box 550, Chapin, S.C. 29036. (803) 345-3373.

Greenville WCARS-VEC

Exams 1st Saturday of each odd-numbered month at 8:30 a.m. at Greenville Technical College Library Auditorium. Sked: Mar.2, May 4, (Anderson College at 12:00 Noon), July 13, Sep.7, Nov.1. Walk-ins normally accepted. Contact John Chism, ND4N, 203 Lanewood Dr., Greenville, SC 29607. (803) 297-1617.

Lancaster W5YI-VEC

Novice thru Extra. Pre-Regis, or Walkins. 9:30 a.m. USC, Main Bldg. Talkin 10-70. Contact Grady Robinson, AK4N, 902 Forest Dr., Lancaster, SC 29720. (803) 283-8298. Call or write for exam dates.

MISSISSIPPI

Hattiesburg WCARS-VEC

Walk-in examinations are held at the Pinebelt Airport Building. For info. and schedules, contact: James W. Delancy, WC5H, 604 Maplewood Drive, Hattiesburg, MS 39402. (601) 264-8325.

COACH'S CORNER

Repeater INTERFERENCE: The Definition

Many times, the SERA Board will get reports that "someone's repeater is interfering with my repeater." An investigation turns out that the complaining person merely hears a distant repeater on the same frequency.

With today's crowded band of repeaters, there are very few channels that you cannot hear several repeaters if your antenna system is good enough. Suggestion: get a lower or smaller antenna, capable of hearing only YOUR repeater. Legally, there is NO interference when one merely hears the output of another distant repeater.

Unless the distant repeater happens to be upside down, there is no possibility of one repeater interfering with another.

GOOD BAND CONDITIONS occur often in the morning and in the afternoon during the warmer months. This condition is NOT considered a norm, and should not be considered when checking for interference. An interference complaint of other distant operators getting into your repeater during good band conditions, are not a valid complaint.

KEYING UP YOUR REPEATER by users of another system will sometimes occur during NORMAL operating conditions. Usually this is not "willfull interference", but merely an accident, usually by persons within the fringe area of the two machines.

A telephone call, or a meeting with the other repeater owner, giving him the callsign of the persons (who usually are only a couple) can help solve the problem. The other repeater owner merely has to speak to his users and ask them to use directional antennas, smaller antennas or lower their power enough to make contact in the other repeater, whichever works best.

With today's crowded 2-meter band with repeaters, keyups, stray signals, and interference is going to occur. Repeater owners can solve many of the problems with "gentlemanly contacts" with the other repeater owner.

Another good alternative, which a lot of repeater owners are resorting to, especially during good band conditions is subtone access. Most of today's radios have subtone encode included in them, and users would merely have to program in the tone. This would eliminate many problems which might cause your machine to re-cycle.

The repeaters are here! More are coming, regardless of whether we need them or not, so we may as well prepare for them.

The repeaters are here! More are coming, regardless of whether we need them or not, so we may as well prepare for them.

Coordinators must choose frequencies for new repeater requests that will cause the "least amount of interference". There are few frequencies left that will cause "NO interference." Sometimes it is better for a coordinator to take the road of "least interference" and coordinate it, rather than allow the new repeater owner to choose his own frequency which might cause "massive interference."

Repeater owners will have to expect "no clear channels" in the future. More people want to put on more repeaters. We cannot stop them, we can only try to get them in situations with minimum interference.

We hope repeater owners will learn to respect the coordinators judgement in these situations. Only a few are getting effected by minimal interference today. As time passes more will be in the same situation. But minimal interference is much better than massive interference which will cause chaos if left unchecked.

HOT-P Membership Has Small Price Increase

David Ward, KA4LVO told the SERA Board that due to postal increases in February, our present rate of $10.50 per year would not cover costs for HOT-P (Hot Off The Press, where Repeater Journals are mailed First Class Postage to members paying that rate).

Ward said that effective immediately, the rate would have to be increased to $12.25 per year. He reminded that the actual Membership rate was NOT increasing and would remain at the $6.00 rate, but the First Class postage and handling would require the additional $6.25 per year. He said present subscribers would be allowed to finish their current paid up period under the old price, but the renewal price would be $12.25 as would be all future new HOT-P Associate Memberships.

Bad timing has again left me red faced. It was a matter of deadline timing.

During the fall of 1990 a group of us had been gathering nightly on the St. Albans 147.150 repeater to discuss the Rose switch, about which we knew little or nothing. The only one on the net with any knowledge was John Harmon, N4OKL, who moved back to West Virginia from Florida in Dec. 1989. Before he left Florida there was some Rose activity there.

We placed inquiries on packet on ALLWV and OKIPN (Ohio-Kentucky-Indiana Packet Network) seeking information. Many who replied asked John if he learned something to please pass the information along to them as they also sought such information.

In my November *Journal* copy I inquired about inroads, if any, of the Rose switch software into SERA territory. That copy was mailed to the *Journal* on 1 Oct.

Then, before our November issue of the *Journal* arrived in the mail subscribers to *CQ* magazine began calling me on the voice repeaters to tell me that the November issue of *CQ* had a detailed article on the Rose switch. Bruce, KB8KAC, went out of his way to bring a copy of *CQ* to my QTH.

The article by Buck Rogers, K4ABT, OF Warner Robins, Ga., detailed the workout the switch software is getting in Georgia, one of our SERA districts.

There are 21 Rose switches operating there under the auspices of GARDS (the Georgia Amateur Digital System) network.

So we got some answers there. Also Bob Adams, N9DMK, had acquired the (then) latest Rose software disc and gave me a copy of the User's Guide. Garry, WD8OMB, has since run off extra copies of the Guide and between

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WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

us we have passed along copies to more than half a dozen other hams.

We are still learning. We discovered three operating Rose switches in the region but for now they do not hear each other.

To give the switch a real test in our area there are plans to put the software on switches in our local 145.050 Mhz LAN (Local Area Net). It was proposed it be put on the HURC:N9DMK-2, STALAN: N9DMK-5, and CRWLAN:WB8IFS-6 nodes, plus PARC:NM8T-5 node on Gauley Mountain near Ansted, WV, which is sponsored by the Plateau Amateur Radio Club.

At deadline Terry, WB8IFS, was considering an RS 232 tie-in with his CRW stack (CRW, CRWLAN, CRWUHF, CRWQSO) if that can be done. It was given no timetable for this. There is also the possibility that Rose software will be put on a system in Ashland, Ky, and perhaps even at Louisa, Ky.

Perhaps by the time this sees print a test of the Rose software may be underway in this area.

I have connected to the "heard" function of switches in Hippo, Ky; Williamson, WV; and Dismal Peak (along the Va/NC border). They are/were, respectively: KC4KZT-5,606886; WR8M-5,304235; and N4AGN-5,919667.

Since then, however, WR8M-5 in Williamson apparently has reverted to a TheNet node on 145.05 with its old alias of BUFF.

I have not been able to determine if this is permanent or only until there are other Rose switches around to operate a system for a test. Maybe things will be much clearer by the time of the next issue of the *Journal* in May.

Incidentally, if those six figures after the calls on the Rose switch are meaningless to you it is time to start studying, doing some reading and applying some research so you'll know how to use a Rose switch if several become operational in your area for to many of us it's NEW, it's DIFFERENT.

John, (K4OKL again) keeps in touch with packeteers around the country. That's why he's aware of the spread of Rose software in Florida, along sections of the east coast, and elsewhere. He operates a 10-meter gateway to 28.195 Mhz at his Charleston QTH — WVCRW:N4OKL-10. Charleston area hams can access it through crossovers from 145.010 and 145.050 Mhz.

John tells me partisans of TheNet are not standing still, and that further software development is underway by various hams to upgrade TheNet software. There reportedly is a test of a new version underway in Arizona.

The new software is said to include under the "routes" command a return not only of node calls but their aliases as well and 'a "stay connected" feature. The latter keeps you connected to a distant node when you disconnect from your last contact. That way you don't have to begin from scratch to rebuild your route to a distant destination.

Any input you may have to offer for this quarterly column can be sent to: Post Office Box 133, Cabin Creek, WV 25035, or via packet to WD4KHL ° WB8CQV.WV.USA.NA.

I had well over a half dozen more story or column possibilities but individuals were unavailable prior to deadline to provide the information I needed. One thought was to summarize club class activity and to get some idea of how many new hams have been added to our ranks in 1990 as a result of those efforts. I can't write about these things unless YOU out there provide me with details.

And to non packeteers out there I apologize for devoting a lot of time to the subject —but that is the fastest growing area of ham radio today and one in which I am involved. And nobody else in writing about the subject here yet.

From recent newsletters of the Mid-Ohio Valley ARC at Parkersburg:

As of 1 Dec the alias of the club digipeater on 145.090 Mhz was changed to WOODWV (formerly WCEOC), and the PBBS changed from EOC to PKBGWV.

In December MOVARC membership was up to 82, including six associate members.

Planning is already underway for the club's 1991 Hamfest to be held in August of this year.

At the group's VE examination on Nov 3 several hams upgraded. They were: John (KC8GF), Advanced to Extra class; Bob (KB8JRM), Technician to General; Daryl (KB8KBH) and Rick (KB8KSN), Novice to Technician. At the Nov 15 Novice class Rex Theobald passed the written part of the exam. He had passed the code element the week before.

MOVARC reports the installation of antennas at Reynolds Memorial Hospital in Glendale, WV. The hospital will have a full amateur radio station in a private room next to the Emergency room.

• • • •

Shortly after you receive this issue of the *Journal* the Fayetteville, WV, Hamfest will be underway. It is from 9:00 a.m. to 3:00 p.m. on Sunday, Feb 24, in the Fayetteville High School gym as in years previous. It is the first ham event of the year in West Virginia and eagerly awaited by those who by that time may be suffering from wintertime "cabin fever."

And don't forget the 7th annual Charleston (WV) Area Hamfest and Computer Show coming up next month on Sunday, Apr 7, 9:00 a.m. to 3:00 p.m. at the Charleston Civic Center. Further information on that event is available from Jimmy Hewlett, WD8MKS, at 304/768-1142. The hamfest mail address is Post Office Box 8364, South Charleston, WV 25303. Talk-in for the hamfest will be the 147.750/147.150 repeater and 146.520 Mhz simplex.

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Hospitalized in December: Ethel (twice) XYL of Wilbur Williams, K8MNA, St. Albans; and Sam Moore (surgery twice), W8NCD Charleston.

• • • •

Thanks for fine holiday cards from Fred WA4SWF, Louisa, Ky, and W.C. Spenn, WR5G

Continued on Page 46

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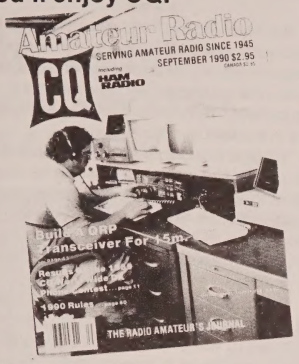

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Let's Just Stay Calm

(Continued from Page 1)

Eventually the word got out, "Pass your Novice and go after the Tech, because there isn't enough for you as a Novice to justify buying a 10-meter or a 220 rig."

Was this a hampering point? You bet it was!

Amateur Growth — Myth or Truth?

I keep hearing from the ARRL that Amateur Radio is alive and well and that 1990 was a great growth year. The league was strictly for 10M and 220 Mhz. for Novice enhancement, and even though an ARRL straw committee recommended more, as did most other national organizations, including the National conference of VECs, the QCWA and others, a few members of the ARRL Board managed to pass recommendations giving the new code-less type license no more than the Novices got, even though it was already evident that Novice Enhancement was not working.

Still the League insists we ARE growing. In their November 2 issue of the "ARRL Letter" they had a story, "Amateur Ranks Continue Growth". They said that Amateur licensees grew 6.1 percent in the 1990 fiscal year statistics.

There is just one little point the ARRL failed to mention. The FCC has not purged their computers since 1988 and will not until 1993 of deaths, lapsed licensees and other reasons amateurs do not renew. The reason is the new 10-year licensing structure placed in effect by the FCC in 1984.

Perhaps a clearer picture of the actual ranks and growth of Amateur Radio could be painted if you take the growth figures for 1989 and 1990 and then could subtract estimated losses by lack of renewals. This of course isn't possible, so we can only estimate based on previous years of activity. We can say that the figures of growth greatly overstate the Amateur census for 1989 and 1990.

In 1993 we may be in for the shock of our lives when the FCC again starts purging from its computers those who have not renewed their licenses.

So, I wouldn't go so far as to say that Amateur Radio is alive and well when only a 6% increase can be shown. According to the FCC Licensing Facility in Gettysburg, the adjusted growth is a misleading figure.

Do We Want Those "CB" Types?

Ah, now we get down to the part most fear. Can we even define a "CB Type"? I think I can. Tune your HF rig to 75-meters, or 20 meters, or many other places. Turn on your 2-meter rig on some repeaters and listen, they are already here, they've been around for 20 years or more, but now they are hiding under the protection of the Constitution and are letting their true identities come out. These people are on the streets walking with you. You meet them on the highways everyday. You even work with them during your regular jobs. You even have some of them in your club.

I don't think we can find any think any worse in the Amateur Ranks than this. So what are we worried about those "CB" types who will invade our ranks because of "no-code"? I think they will be mild compared to what we already have.

Well, The 2-Meter Band is Full Already!

You gotta be kidding! The 2-meter band is full of repeaters, but if you take the total number of Amateurs in our 8-SERA states, deduct half of them for NOT being on 2-meters for various reasons, and divide that figure by the number of repeaters, you come out with less than 15 persons per repeater. Of course, some repeaters have many people on them. Others have no one on them. You don't believe me! Tune around a bit, any time of the day or night. I rest my case.

Let's Mould No-coders as Good Amateurs!

Most every new ham will have to face some other Amateur at one time or another, whether its to study for his Novice exam, or Technician exam, or attend classes presented by our clubs. Here is our chance! We can teach these "new" people how to operate on the bands. We can teach them the value of being a public servant in Amateur Radio. We can teach them how to hook up their radios, turn them on, and tune them to the local repeater. We can teach them how much pleasure is derived at being a part of clean wholesome fun in a club such as yours.

You don't have to teach only from the book. The FCC exam is a very small part of what instructors and club members should be teaching new hams. Anybody can learn the questions and pass the test. Let's be a part of just what questions new ham has at his or her disposal and see that they learn their lesson well.

And If You Don't!

If you as a "seasoned" amateur, club, repeater owner or whatever do not wish to take the time to properly train this new "green" person, eager to do the right thing in this "new" world he is entering, it will be your own fault if he falls into the hands of the "CB" types.

They certainly would like to increase their numbers. You should share that desire to increase your numbers. The only battle we have coming with "no-code" is the battle within ourselves. The winner will shape Amateur radio in the future. So which side are you on? Are you going to hang it up? Are you a quitter? Would you sacrifice the good times you have had on Amateur Radio at the expense of what you think might happen. Are you going to let the "baddies" win, or are you going to swallow your pride and your bitterness and move forward in the good old American way.

It's the same you know. . .the American way is the Amateur way.

— Wayne C. Williams, K4MOB
Editor, The Repeater Journal

FCC Moves Atlanta Office

The FCCs Atlanta office has moved. Their new address is: Atlanta Office, Federal Communications Commission, Koger Center-Gwinnett, Suite 320, 3575 Koger Blvd., Duluth, Ga. 30136. For recorded information, call (404) 279-4620.

WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

Continued From Page 44

San Antonio, Tx. And special thanks for a pre-Christmas visit from Garry, WD8)MB, and Mike Wine, KA8VFH, with some computer equipment and supplies for this QTH.

Hams already owning a Commodore computer (C-64 or 128), disc drive and printer who are giving the Digicom packet system a tryout include Bill Evans, KB8KPT, Matewan, WV; Clarence Johnson, N8JDF, Proctorville, Ohio; Bob Welling, KA8MLQ, Dunbar, WV (a present from Santa!); and Steve White, NM8T, Fayetteville, WV. Already old hands with Digicom are John, N4OKL, Charleston; and Daryl, KB8AYR, St. Albans, WV. And I should have my Digicom working by the time this *Journal* reaches you.

And speaking of NM8T, Steve's call is now on the Plateau ARC's packet node on Gauley Mountain near Ansted, WV (PARC:NM8T-5). It replaces the KB8HAV call on the 145.050 Mhz node since Charlie Boehnlein moved to Kentucky.

• • • •

Bob, N9DMK, has activated a new dedicated weather node on the 145.050 Mhz LAN. Temporarily its alias is CRWWX during testing. When finally located on the same tower in St. Albans with the KA8SVR 147.750/147.150 repeater and the STALAN:N9DMK-5 packet node the weather node call will become STAWX:N9DMK-6. You connect to it for real-time weather condition reports from its built-in sensors for inside temperature (xmtr building), outside temperature, wind speed and direction, and rain guage readings.

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Terry, WB8IFS, advises there are now battery backups for a number of his nodes (BEE, BEEUHF, BKWUHF, CRWUHF, CRW, CRWLAN, CRWQSO) scattered around the state. Also the same for the Virginia UHF (446.500 Mhz) node WYTHEU;N4KZL-4 at Wytheville.

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The 26-year old son of Frank "Tiny" Walters (N8MFV), Alum Creek, WV, died in December of heart failure while hospitalized for a serious diabetic condition. Our condolences go out to Tiny and his family.

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No code is a reality now that the FCC acted in December. Note: April 27, 1991, is the anniversary of the 200th birthday of Samuel F.B. Morse, father of the code system bearing his name.

• • • •

West Virginia SERA Director Karl Morris, WB8GDY, wrote to advise there are two new 440-Mhz and one 220-Mhz repeaters coordinated and operating now. They are: Charleston — KB4BNW — 449.750/444.750 Mhz, and Parkersburg — WY8F — 449.775/444.775, and Charleston — WB8YST — 222.760/224.360 Mhz.

Also the Huntington, WB8EZR, 449.600/444.600 repeater is changing frequencies to 448.000/443.000; and the Wheeling 146.160/146.760 machine, which had been off the air and removed from the WERA listing, has been re-coordinated and in construction status under the Northern Panhandle Amateur Radio Club call W8ZQ.

AA8CC, N8JUR, WA8NDY, WA8WCK, WA8YHH, WD8DEP and WD8PAD, members of the Upshur County RACES, stood by to assist with emergency communications between St. Joseph's Hospital and local or long distance contacts via simplex or repeaters during a planned telephone outage at 6:00 a.m. on Oct 2.

There has been a permanent amateur radio station situated in the hospital's basement since the Cuban missile crisis and home fallout shelter days. It has been used in the past during several flood situations to communicate with the state's Emergency Operations Center at the state capitol in Charleston. Information from Delf Norona, WA8NDY, via WB8GDY.

Although WB8GDY didn't mention it in his letter to me there is another 440-Mhz repeater up and operating in the Kanawha Valley. It is K8MHR, 448.150/443.150 in St. Albans. It is co-sited with the KA8SVR repeater and the STALAN packet node. K8MHR/R is equipped with autopatch and other upgrades are planned.

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On Aug 13 the Appalachian Repeater Association was granted non-profit, non-stock corporation status by the office of the West Virginia Secretary of State. Also the Northern Division of ARA has begun a project to build a mountaintop club house at Hizer Knob on Mann Mountain near the community of Layland, WV, which is off state route 41. The clubhouse is designed for use by operators during VHF contests, Field Day, and other special events or by club members for routine radio operation.

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Alex Hedrick, Jr., N8FWL, reports that Tower Sites, Inc., is providing rent-free building space. The location will have four towers with antennas for 50, 144, 220, 432, and HF frequencies. Alex wrote that if support continues at present level construction will start during the spring of 1991.

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The Triple States Radio Amateur Club has acquired a new 5KW Coleman generator. It is at repeater site #2 for standby during electrical failures. The generator will be available to the club for Field Day or amateur radio demonstrations in the field or other such use.

The bluc has also purchased a used Scott 16-foot trailer for the same use and for Search and Rescue missions, and as shelter at the Flea Market entrance to the Wheeling Hamfest. The trailer sleeps six but that will be reduced with the installation of radio equipment and operating positions.

The call at the #1 repeater, WA8ULB, 146.310/146.910, at McMechen, is being changed to N8FQN. This was occasioned by the resignation as trustee of Eddie Haines, Jr. The new trustee is Ray Tabeling, N8FQN, Glen Easton, WV. Ray is the Emergency Coordinator for Marshall County where repeater #1 is located.

Dale B. Yoho, WA8ACR, Moundsville, WV, was reported as a Silent Key on Nov. 6 at the age of 78 by the TSRAC B-N-T newsletter.

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Jason Moore, grandson of Sam, W8NCD, got his novice license in December following classes by KARC at Capital High in Charleston. Congratulations, Jason, on your license, and call — KD8LSG.

• • • •

The route on 145.090 Mhz from the Charleston-Huntcket spotting network at Cambridge, Ohio, is HTSDX:KB8DA-9 to QRZ:W8TN-2 to DX:W8TN-3. The commands I use once connected are those I found in the Packet Cluster User's Guide, V 4.0, March 1990 from Pavillion Software, Hudson, Ma.

But I can't hit HTSDX without digipeating through W8NR in Charleston. However with five 145.050 Hmz nodes in the area I can't get out of my RF hole and hit any of them. I must use BEE:WB8IFS-3 on 145.010 as my only path (aside from the above on 145.050 from BEE I connect BEEUHF, CRWLAND. CRWLAN is a crossover to 145.050 Mhz.

Alabama Repeater Council Has New Leadership

Leigh Bartlow, WD4CPF, Director in Huntsville will be taking on the job of Chairman of the Frequency Co-ordination Committee for the Alabama Repeater Council. Danny Lloyd, KB4MDD, Director and ARC Vice President will assume the position of interim President until regular elections are Held at the Birmingham-fest in May, 1991.

The new leaders assumed responsibilities from Hob Hays, K4TQR, former President, and Ellis Dobbins, AA4LI, former Frequency Coordinating Chairman. Both Hayes and Dobbins resigned in November citing personal job requirements not allowing them time to personally care for the ARC positions as they wanted to.

The New ARC Frequency Coordination Chairman's address is P.O. Box 16085, Huntsville, AL 35802 and the new interim President's address is Route 2, Box 313, Dadesville, AL 36853.

Resigning President Hays said he expected the ARC to continue to be a strong thriving Coordination body for the State of Alabama, and expressed his appreciation of the cooperation between SERA Districts in surrounding states with ARC in matters concerning coordination.

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The Repeater Journal cannot be held liable or responsible for errors in advertising, or to the quality or accuracy of advertising claims.

All advertising copy and insertion orders should be sent to the Repeater Journal Advertising Manager. Ad copy deadlines are the 1st of the month, prior to month of publication. Insertion deadline for new ads is 10 days prior to copy deadline.

COPY DEADLINE DATES

February Issue - Jan. 1, May Issue - Apr. 1,
August Issue - Jul. 1, November. Issue - Oct. 1.

Winston-Salem Hamfest, Computer & Electronics Fair

Saturday, June 8, 1991 9:00 AM - 5:00 PM

Totally indoor AIR CONDITIONED location!

Benton Convention Center

Fantastic facilities - Huge Indoor Dealer and Fleamarket Areas!

Assistance with unloading and loading.

Talk-in Frequencies 146.64 (-600) Primary 145.47 (-600) Backup

FCC EXAMS

BY PRE-REGISTRATION ONLY
Send completed Form 610, copy of license & Credit Certificate (if applicable), specify which Element you wish to take along with $4.95 to:
(make checks to TEARC/VEC)
Bob Gates, KJ4IC
5407D Country Side Drive
Winston-Salem, NC 27105
Exams start at 9:00 AM SHARP!
(Cut off date June 7)

PRIZES!

First Prize.....IBM Clone computer
Second Prize.....Deluxe Multimeter
Third Prize.....Large Gourmet Ham
Pre-regristration.....Computer Mouse

You DO NOT have to be present to win!

Also - Lots of Hourly Prizes!

TICKETS:

In advance.....$4.00
At the gate.....$5.00
Fleamarket table.....Admission + $10.00
Covered parking - Children under 12 FREE
Send ticket or fleamarket pre-registration to:
(Include SASE)
Winston-Salem Hamfest
P. O. Box 11361
Winston-Salem, NC 27116

DEALERS:

Large air conditioned indoor area.
Covered loading and unloading area.
Help with unloading and loading provided.
AVOID DISAPPOINTMENT
MAKE RESERVATIONS EARLY - CONTACT
Jim or Dolly Rodgers
P. O. Box 11361
Winston-Salem, NC 27116
Call 9 AM - 10 PM 919 760 2493

Last Chance for supplies before Field Day!

Unloading 6-10 PM Friday and 6-9 AM Saturday.

Come and see why Winston-Salem is the fastest growing hamfest in North Carolina!

SERA District Facts & Figures

When you get out your membership records, your repeater lists, and the Callbook, you can glean some interesting figures, especially if you are a statistics nut.

We first checked the Full and Associate Membership rosters from David Ward. He gave us some interesting figures. North Carolina membership represents 38.6% of all of SERA membership, followed by Virginia with 16.3%. We might mention, the totals don't come out to 100% because of out of District memberships, which are scattered across 35 States and several countries.

Next you wonder how the individual States stack up as far as repeaters are concerned. Checking our repeater census in this issue of the Journal, we find that Tennessee leads the way with 295 repeaters, followed by Georgia with 276 and North Carolina with 238.

My next source of information was the 1991 Radio Amateur Callbook. Here I found the Amateur Census for each of our SERA States. In this category, Virginia leads the way with 11,570 Amateurs, followed by North Carolina with 10,911. The smallest Amateur populated State is Mississippi with 3,152.

As I looked over these figures and transposed them to pie charts on the computer, I thought of some comments I had heard often, "The 2-Meter band is full." So I decided to take the total number of Amateurs in each State and divide them by the number of repeaters on ALL bands in each State.

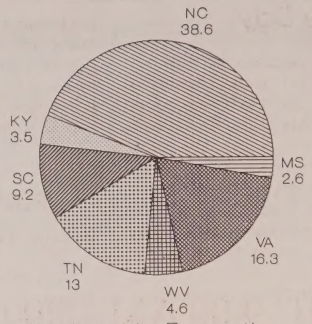
First, there is one thing we must consider before we digest these totals. We would generally estimate that about 1/2 of the Amateur population in each State in NOT on VHF or UHF, either because of death, didn't renew their license, inactive, or only work the HF bands. Now, with these numbers, we can divide the figures you see on the pie chart by one-half.

We obviously aren't very crowded. With 1/2 counted, we have approximately 23 persons for every repeater in North Carolina. In Mississippi, there aren't but about 16 people per repeater.

Oh well, the figures are not really important, but it was fun to look them up and compare SERA States.

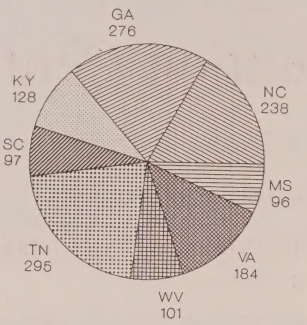
(The Journal Editor)

FULL & ASSOCIATE

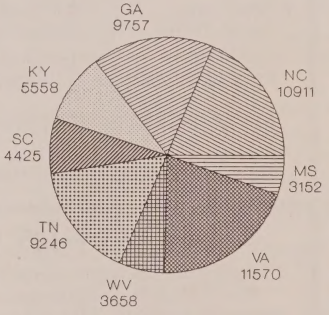


Membership Proportions

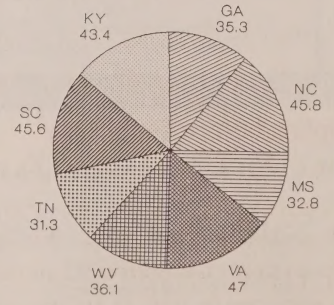
STATE REPEATERS



AMATEUR CENSUS



REPEATER AMATEURS



Census/Per Repeater

DIAMOND

	DESCRIPTION	PRICE
SX-100	1.6-60MHZ 30/300/3KW SWR/PWR	124.95
SX-200	1.8-200MHZ 5/20/200W SWR/PWR	99.95
SX-400	140-525MHZ 5/20/200 SWR/PWR	104.95
SX-600	1.8-200&140-525MHZ 2/20/200W	164.95
SX-1000	1.6-160&430-1300MHZ 5/20/200	219.95
CP-22J	2 MTR 2-5/8W. 6.5db200W 9.0'	89.95
F-22A	2 MTR 2-7/8 6.7 db 200W 10.5'	97.95
F-23A	2 MTR 3-5/8 7.8 db 200W 15.0'	139.95
F-142A*	220MHZ 2-5/8 6.0db 200W 6.0'	109.95
X50A	144-4.5db/440-7.2db 5.6'	99.95
X200A	144-6.0db/440-8.0db 8.3'	134.95
X500A-N	144-8.3db/440-11.7db 17.2'	174.95
X500HA-N	HEAVY DUTY VERSION X500A-N	249.95
NR-140A	220 MHZ 4db 1-1/2&1-1/4 WAVE	49.95
CR-214S	146-3.0 db/220MHZ-3.0 db	53.95
NR-770NMO	146-3.0 db/440-5.5db 200W 39"	54.95
NR-770	146-3.0 db/440-5.5db 200W 39"	47.95
NR-770MM	ANTENNA W/ LARSEN MAG MOUNT	71.95
NR-770TLM	ANTENNA W/ LARSEN TNK LID MNT	69.95
NR-770TMB	ANTENNA W/ LARSEN GUTTER MNT	69.95
NR-790	146-4.5 db/440-7.2db 120W 58"	74.95
NR-790TLM	ANTENNA W/LARSEN TNK LID MNT	94.95
SG-2000	2MTR SUPER GAINER 5.2db150W62"	72.95
SG-2000TLM	2MTR SUP G'ER 5.2db 62"W/TLM	94.95
SG-7500	146-3.0 db/440-5.5db 39"	72.95
SG-7900	146-4.5 db/440-7.2db 62"	97.95
K-400M	TK MNT K ADG(0-90)16.5'RG-188	71.95
K-400NMO	NMO MNT W/16.5'COAX & PL-259	64.95
K-600M	TK MNT ADG(0-9) 16.5'RG-188	57.95
SPM-35	PREMIUM MAG MNT 1.5#4"13'RG-58	39.95
NMO-UHF	ADAPTER PO ANTENNA TO NMO MNT	17.95
D-130J	DISCONE ANT 25-1300MHZ 200W	86.95
MX-72H	2MTR/440 DUP.12"COAX 2 PL259	49.95
MX-72N	2MTR/440 DUP.12"COAX PL259&N	52.95
MX-214	2MTR/220MHZ DUP. W/PL-259	79.95
RH-77	2MTR-1db/70CM-3db HT 15" ANT	27.95

CALL FOR PRICES ON ITEMS NOT LISTED

ELECTRONIC SPECIALISTS

CINEMA SQUARE SHOPPING CENTER
3830 OLEANDER DRIVE
WILMINGTON, NORTH CAROLINA 28403

ORDER LINE 1-800-688-0073

SAME LOW PRICE FOR CASH, VISA AND MASTERCARD!

Augusta Hamfest May Drop Back To One Day

— by Jim Abercrombie, N4JA

The Amateur Radio Club of Augusta (Georgia) will possibly go back to only one day i n 1991 for the Augusta Hamfest and Computer Fair. The Civic Center may be opened up Friday morning for dealer setup, then opening for the public to enter from 6 to 10 pm on Friday night. But Saturday the 19th of October, 1991 will be our main hamfest day whether or not we decide to open on Friday. Sunday the 20th is definitely out.

The reason for this change is economics. Ninety percent of our hamfest admission sales for the past two years has been on Saturday. We had a mediocre attendance this year on Sunday, but most of our Sunday folks were Saturday's crowd who came back the second day. The gate receipts for new attendance indicated we only sold about 100 tickets on Sunday. We would have made a great deal of profit if we had been a "Saturday only" show. The expense for Sunday was much more than double our Saturday's expenses.

At the Civic Center, in addition to daily rent, we have to pay hourly wages for a doorman, a union electrician, and for policemen and firemen who by law have to be on duty during show hours. These personnel get time and a half for Sunday (totalling more than $1000 for both days). If we open up Friday night we will only be required to pay the police and firemen for four hours at regular time wages. Locals who work Saturday will be able to attend Friday night. If we don't open Friday we will save all those wages plus one day's rent on the Civic Center.

I have been attending hamfests since 1959 and have seen them grow from social events to big businesses. I attended ten other hamfests in 1990 for fun and for the purpose of promoting the Augusta hamfest. It is my observation and opinion there are very few hamfests today justifying being held more than one day. Even Shelby is a one day event. Compare Shelby's attendance Saturday and Sunday. Compared to Saturday, Sunday's attendance is dismal. The same phenomenon occurs at both Atlanta and Charlotte. The only hamfest I've been to lately that justifies more than one day is Dayton. You can't see even see the fleamarket in one day at Dayton.

I know there are people who work on Saturday and others who attend church on Sunday. So why not give them two days? People who like to go to hamfests, like himself, will go to them even if they are held in the middle of the night out of doors in February. I go to Dayton every year staying for three days. I drive 650 miles to get there. I save up my personal leave time in order to be able to get off work and I even miss church that weekend. There are many hams who never go to hamfests and would not attend if they were free and held across the street from where they live. These people are the ones who give excuses such as church and work for not attending. It doesn't matter which day you hold the hamfest. People who like hamfests will attend either day.

I expect to see other two day hamfests to eventually convert to one day events, especially if the sponsoring club has to pay for the hamfest site. It's a shame that every hamfest is not free of expenses and has an air-conditioned indoor site. With a hamfest being the only fundraising event of most clubs, we hamfest chairmen must plan our events so the club will make a profit.

Federal Court Favors FCC On Amateur 220 Issue

On December 3rd, the U.S. Court of Appeals for the District of Columbia handed down a ruling, denying the ARRLs Petition for Review of the FCCs decision to award the 220-222 Mhz. band segment to land mobile users. The ARRL was given 7 days to request a rehearing by the same court, or ask the Supreme Court to hear the case. Apparently the League has decided not to pursue the case further.

The decision was handed down just a few days after the actual hearing by a three judge panel who heard from the ARRL and the FCC.

It was apparent, due to the quickness of the decision, the judges found nothing persuasive to cause them to hesitate longer. They decreed that the FCC acted within its discretion in its decision to award the 220-222 Mhz. segment to the land mobile.

"The FCC cannot now be faulted for relying on information (the ARRL Repeater Directory) that came from the League itself. The League had argued that the FCC should have never relied on the information which had been published by the League. *— Tnx W5YI*

Upstate Radio Club New NC Organization

A new club has been formed for the Upstate in cooperation with the Greenville County School System. The new group is called the Roper Mountain Experimenters Group (ROMEG), and meets the 2nd Saturday of each month at the Roper Mountain Science Center at 10:00 a.m. The Center is owned and operated by the Greenville County School System and is located off Hwy. 385 on Roper Mt. Road.

The Club was organized to utilize Amateur Radio as an instructional tool to teach and encourage the study of sciences. The Club has Ham's participating from all over the Upstate and Western North Carolina.

On July 4th the Club released a Weather Balloon with a 100mw CW Beacon on 145.935, a 200mw Voice Beacon on 144.340 and a 100m 6-meter telemetry on 50.086 with temperature information. The project was a great success with the beacons being heard for hundreds of miles.

Future projects include radio classes in early '91 and more balloon launches with a 10-meter and 2-meter linear transponder, live ATV and any other payloads that the students may wish to include. The Science Center also has an Observatory and plans to broadcast live ATV pictures from the telescope as well as live ATV Weather Radar.

The Club also hopes to expand its Club Station and is soliciting donations for the Station. Any old equipment you may wish to donate or a cash donation would be greatly appreciated and is also tax deductable. The group also holds a 2 meter net weekly at 10:00 a.m. on Saturday's on 145.15 for information on activities and talk in when the Club meets. The Club address for donations or information is: ROMEG, c/o Don Fortner (K4SAO), 504 Roper Mt. Road, Greenville, S.C. 29615.

Your Source For: • **RF Connectors (all types)**
• **Wire Antennas** • **Coaxial Cable**
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We Feature Quality Products - Distributed by:
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NEW Products From The POWER Of MIRAGE/KLM

New Antenna Power For 6-Meters

Nothing on today's market can match the performance of these TWO newly designed antennas .... The elements are grounded to the boom to prevent static build-up ... Extremely broadbanded in their performance ... With all stainless steel hardware and rugged construction for survivability ....

6M-10

ELECTRICAL		MECHANICAL	
Bandwidth	50-52 MHz	Elements	10
Gain	11.7 dBd	Element Length	116″
VSWR @ 50.1	less than 1.2 to 1	Boom Size	2″ o.d. × 34′ 3½″
Front-to-Back	26 dBd	Turn Radius	21¾′
Feed Impedance	50 Ohms	Windload	4.4 sq. ft.
Balun	4:1, 5kw PEP	Weight	29 lbs.
Wavelength	1.74	Mast	2″

6M-14

ELECTRICAL		MECHANICAL	
Bandwidth	50-52 MHz	Elements	14
Gain	14.0 dBd	Element Length	116″
VSWR @ 50.1	less than 1.2 to 1	Boom Size	3″ o.d. × 61′
Front-to-Back	25 dBd	Turn Radius	35½′
Feed Impedance	50 Ohms	Windload	10 sq. ft.
Balun	4:1, 5kw PEP	Weight	43 lbs.
Wavelength	3.10	Mast	2″

New Pre-Amp Power For All Bands

MIRAGE is in production on new pre-amps for the following bands:

6 Meters
2 Meters
1¼ Meters
70 Centimeters
23 Centimeters
(Coming Soon)

And each is available as a *mast mount* pre-amp or an *in-shack* model. Reasonably priced and rugged ... these reliable pre-amps are ready now.

All of these new pre-amps will carry a *gain in excess of 20 dB* and the *lowest noise figure in the industry of less than 0.6 dB.*

Increase Your POWER With MIRAGE/KLM

Your shack just got more flexible with these 12 amplifers

New Amplifier Power For 50, 144, 220 MHz Marine Band and 1.2 GHz

They all have our new GaAs-FET pre-amps with the lowest noise figure in the industry at less than 0.6 dB ... and each with a gain in excess of 20 dB ... switchable gain on pre-amp to prevent intermodulation ... high VSWR protection, over-power protection, and over-temp shutdown gives you all the flexibility you'll ever need.

2-Meter Power

B-5016-G
50W in
160W out
144-148 MHz

B-5030-G
50W in
300W out
144-148 MHz

B-108-G
10W in
80W out
144-148 MHz

220 MHz Power

C-5012-G
50W in
120W out
220-225 MHz

C-5024-G
50W in
240W out
220-225 MHz

C-3024-G
30W in
240W out
220-225 MHz

C-106-G
10W in
60W out
220-225 MHz

6-Meter Power (Coming Soon)

TWO new amps for
50-52 MHz
Low Input
High Output

1.2 GHz Power (Coming Soon)

TWO amps to use on
1200-1300 MHz
Low Input
High Output

Marine Band Power

M-120-G
2W in
25W out
156.00-158.50 MHz

This handheld size amplifier can be used for just about anything in Marine band communications. Low-noise GaAs-FET pre-amp, gain in excess of 20 dB and of course, high VSWR shut down. In addition, this amp operates comfortably in 2-meters.

MIRAGE/KLM
COMMUNICATIONS EQUIPMENT

P.O. Box 1000 Morgan Hill, CA 95038
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ROANOKE MAYFEST '91

HAMFEST AND COMPUTER SHOW

SATURDAY, MAY 18, 1991

LANCERLOT SPORTS COMPLEX

VINTON, VA

AN APPROVED ARRL EVENT

PRESENTED BY

THE ROANOKE VALLEY AMATEUR RADIO CLUB

GRAND PRIZE: $600.00

SECOND PRIZE: $300.00

PREREGISTRATION PRIZE: $100.00

TALK-IN ON 146.985 (-600) & 442.50+

TICKET INFORMATION

General Admission– Preregistration $5.00
At the Door $6.00

COMMERCIAL DEALER SPACES

1 - 8 ft. table (includes 2 chairs) $25.00
Each additional table $20.00

Non-Commercial exhibitor must also purchase General Admission Ticket.

INSIDE FLEAMARKET TABLES

1 - 8 ft. table (includes 1 chair) $10.00

PRICE FOR ELECTRICAL HOOKUP $15.00

OUTSIDE TAILGATE SPACE $5.00

PREREGISTRATION DEADLINE MAY 10, 1991. PLEASE SEND S.A.S.E.

UPGRADE EXAMS: No Novice exams. VEC Exam: Send 610, copy of current license and any Certificates of Completion along with a check for $5.25 payable to: WCARS/VEC.

Mail to: KZ4Y
4024 Oakland Blvd.
Roanoke, Virginia 24012

For more information, please send S.A.S.E. Registration Deadline May 1. Preregistration required.

LADIES: BINGO, CONVENIENT SHOPPING.

MEALS: Easy walking distance to many local restaurants.

SHOW HOURS: 9:00 A.M.- 4:00 P.M.

1991 HAMFEST PREREGISTRATION FORM

Mail check, S.A.S.E. and this completed form to:
R.V.A.R.C., P. O. Box 2002, Roanoke, Virginia 24009.
WE MUST RECEIVE THIS BY MAY 10, 1991.

NAME:_____ CALL:_____

ADDRESS:_____ PHONE:_____

CITY:_____ STATE:_____ ZIP:_____

I would like _____ Hamfest Tickets @ $5.00 each . . . . . $ _____

Reserve _____ Commercial Dealer Spaces @ $25.00 each . . . . . $ _____
(1 - 8 ft. table, includes 2 chairs)

Reserve _____ Each Additional Table @ $20.00 each . . . . . $ _____

Reserve _____ Inside Fleamarket Tables @ $10.00 . . . . . $ _____
(1 - 8 ft. table, includes 1 chair)

Reserve _____ Outside Tailgate Space @ $5.00 each . . . . . $ _____

Reserve _____ Electricity Hookup @ $15.00 . . . . . $ _____

Make checks payable to R.V.A.R.C. **TOTAL $** _____

SEVENTH ANNUAL

CHARLESTON, WV AREA HAMFEST AND COMPUTER SHOW

SUNDAY APRIL 7, 1991

9 A.M. TO 3 P.M.

CHARLESTON CIVIC CENTER
ADMISSION $5.00
FLEA MARKET / DRIVE IN TO UNLOAD
AMPLE PARKING OUTSIDE
LADIES PROGRAM

ARRL TESTING / PRE-REGISTRATION ONLY
CONTACT: JIM LINGHAM, AC8K
1528 HAMPTON RD.
CHARLESTON, WV

TALK-IN 147.75/.15
146.52 SIMPLEX

FOR HAMFEST INFO CALL OR WRITE:
JIM HEWLETT, WD8MKS. (304) 768-1142
HAMFEST
P.O. BOX 8364
SO. CHARLESTON, WV 25303

Calendar

REPEATER JOURNAL CALENDAR OF EVENTS

FEBRUARY 1991

2 ..... Hamfest at Kerbella Temple, Knoxville, SEVIERVILLE, TN
2-3 ..... Tropical Hamboree, MIAMI, FL
16-17 ..... Hamfest, SARASOTA, FL
16-17 ..... Capitol City Hamfest, JACKSON, MS
17 ..... Hamfest, ELKIN, NC
23 ..... Hamfest, PENSACOLA, FL
23 ..... Hamfest, STUART, FL
23 ..... Hamfest, DALTON, GA
23 ..... Hamfest, CHARLESTON, SC
23-24 ..... Gr.Lakes Div.ARRL Conv./Hamfest, CINCINNATI, OH
24 ..... 14th Annual Hamfest, FAYETTEVILLE, WV

MARCH 1991

2 ..... Swapfest, MORRISTOWN, TN
2 ..... Mammoth Cave ARC Hamfest, CAVE CITY, KY
9-10 ..... Hamfest, LAFAYETTE, LA
9-10 ..... ARRL Roa.Div.Conv/Hamfest/Computer, CHARLOTTE, NC
15-17 ..... Fl.State ARRL Conv./Hamcation, ORLANDO, FL
16-17 ..... Swapfest, FT. WALTON BEACH, FL
23 ..... Kennehoochee ARC, MARIETTA, GA
30-31 ..... Hamfest, COLUMBUS, GA

APRIL 1991

2 ..... Hamfest, OAK RIDGE, TN
5-7 ..... Mo. State ARRL Conv/Hamfest, KANSAS CITY, MO
6-7 ..... Baltimore ARC Hamfest,TIMONIUM, MD
6 ..... Ak.State ARRL Conv./Hamfest, LITTLE ROCK, AR
7 ..... Hamfest/Computer Show, CHARLESTON, WV
12-13 ..... Central Georgia ARC Hamfest, WARNER ROBINS, GA
14 ..... RARS Hamfest, RALEIGH, NC
26-27-28 ..... 40th Hamvention, DAYTON, OH

MAY 1991

4-5 ... 52nd Hamfest At Anderson Cty Fairgrnds,GREENVILLE, SC
4-5* ..... Hamfest, BATON ROUGE, LA
11-12* ..... Hamfest, TOCCOA, GA
18* ..... 30th RVARC Mayfest, ROANOKE, VA
18-19 ..... Ala. State ARRL Conv/Hamfest, BIRMINGHAM, AL
18-19* ..... Andrsn, Hrtwl, Toccoa RC HF, HARTWELL,GA
19* ..... TSRAC Hamfest, WHEELING, WV
25 ..... DurhamFest, DURHAM, NC
26* ..... MD. FM Assn. Hamfest, W. FRIENDSHIP, MD

JUNE 1991

1-2* ..... Clev. ARC Starfest, CLEVELAND, TN
1 ..... 24th Annual Hamfest, KNOXVILLE, TN
1* ..... Athens RC Annual Hamfest, ATHENS, GA
2* ..... Hamfest, COLUMBUS, OH
2* ..... Hamfest, HUMBOLT, TN
2 ..... Hamfest, MANASSAS, VA
2* ..... Hamfest, MUNCIE, OH
8 ..... Hamfest, WINSTON-SALEM, NC
15 ..... Albany ARC Hamfest, ALBANY, GA
16* ..... Hamfest, FREDERICK, MD
29* ..... Hamfest, BLUEFIELD, WV

JULY 1991

6-7 ..... West Va.State ARRL Conv/Hamfest, JACKSONS MILL, WV
20 ..... Summer Swapfest, CARY, NC
27-28* ..... WCARS Hamfest, ASHEVILLE, NC
27-28 ..... Ga.State ARRL Conv/HamFestival, ATLANTA, GA
28* ..... BRATS Hamfest, TIMONIUM, MD

AUGUST 1991

3-4* ..... 18th Hamfest, JACKSONVILLE, FL
4 ..... 41st Winchester Hamfest, BERRYVILLE, VA
10* ..... Mid-Ohio Valley ARC Hamfest, PARKERSBURG, WV
10-11* ..... 3rd High Point RC Hamfest, HIGH POINT, NC
10-11 ..... Hamfest, HUNTSVILLE, AL
11* ..... Central Ky Hamfest, LEXINGTON, KY
11* ..... Central ARRL Hamfest, GEORGETOWN, KY
17-18 ..... ARK-LA-TEX Hamfest, SHREVEPORT, LA
24-25* ..... Hamfest, MADISON, GA
24-25* ..... Computerfest 91, DAYTON, OH
25* ..... Hamfest, CEDARS OF LEBANON, TN
25* ..... Hamfest 91, ST. CHARLES, MO
31-Sep 1* ..... 34th Annual Hamfest, SHELBY, NC

SEPTEMBER 1991

7-8* ..... Hamfest, MELBOURNE, FL
8* ..... Foundation AR Hamfest, GAITHERSBURG, MD
21* ..... Hamfest, SPRUCE PINE, NC
21-22* ..... Hamfest & Computer Show, MOBILE, AL
21-22. State ARRL Conv/Hamfest/Computer, VIRGINIA BEACH, VA
22 ..... Hamfest, CLEVELAND, OH
22* ..... Hamfest, Lanierland ARC, GAINSVILLE, GA
28* ..... Hamfest, ANNISTON, AL
28* ..... TARA, Hamfest, HUNTINGTON, WV
28-29 ..... Hamfest, LOUISVILLE, KY
29* ..... 3rd Annual JARSFEST, BENSON, NC

OCTOBER 1991

5* ..... Hamfest, ROME, GA
5-6* ..... Hamfest, BILOXI, MS
6* ..... Hamfest, ROCK HILL, SC
12-13 ..... "Memfest '91" Hamfest, MEMPHIS, TN
12-13* ..... 12th Ham Com-Vention, HOUSTON, TX
12-13* ..... 38th Hamfest/Computer Show, AUGUSTA, GA
12-13* ..... Hamfest, W.PALM BEACH, FL
13* ..... 14th Annual CARA Hamfest, HOWARD CTY, MD
13* ..... Hamfest, MAYSVILLE, NC
19* ..... Triangle East ARA Hamfest, SMITHFIELD, NC
19* ..... Tri-Cities Hamfest, GRAY, TN
26* ..... Hamfest, SUMTER, SC
26-27* ..... Hamfest,CHATTANOOGA, TN

NOVEMBER 1991

2-3* ..... Ham Radio/Comp. Expo '91, LAWRENCEVILLE, GA
9-10* ..... Hamfest, FT. LAUDERDALE, FL
10* ..... Hamfest, CONCORD, NC
23-24 ..... S.Fla.Sec.ARRL/Suncoast Conv. '91 TAMPA, FL
23-24* ..... Hamfest, GREENSBORO, NC
23* ..... 14th Annual Hamfest, MONTGOMERY, AL

(Please note: Hamfest dates marked with an asterisk(*) are NOT confirmed. Hamfest sponsors are urged to get their correct show dates to the Repeater Journal Editor as soon as possible. Unconfirmed dates are based on information from the previous year's show date. The Repeater Journal assumes no responsibility or liability for incorrect dates, whether they be from lack of updated club information, or from typographical errors in typesetting and printing.)

Hamfest Sponsors! You Are Invited To Advertise Your Upcoming Hamfest in the *REPEATER JOURNAL*. The *JOURNAL* is received by about every Dealer and Professional Flea Marketer in the Southeast. This Index page and Your ads help them to plan their Hamfest schedule for the Forthcoming year. Call or Write Our Advertising Manager. See Ad Rates on Page 48. Deadline for Space, March 20, Deadline for ad copy, April 1st for the MAY *REPEATER JOURNAL*.

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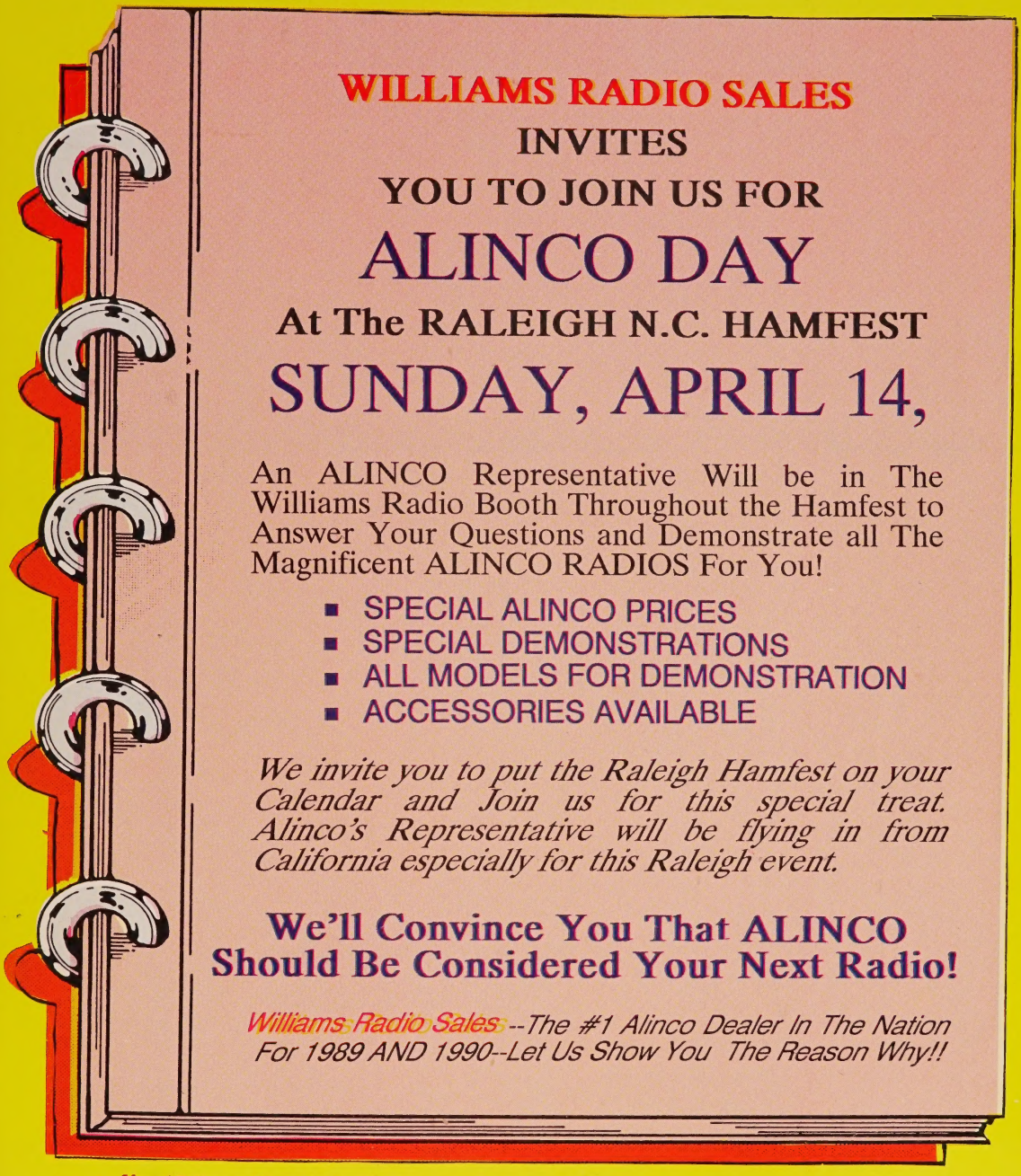

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